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L36 ANSWER 1 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: **2004:470324** HCAPLUS
DOCUMENT NUMBER: 141:25361
TITLE: Concentrated quaternary ammonium composition for detergent
INVENTOR(S): Gallotti, Manlio; Perira de Moraes, Patricia Ramos; Cavalcante, Cassio Queiroz
PATENT ASSIGNEE(S): Clariant International Ltd., Switz.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1426354	A1	20040609	EP 2002-27119 <--	200212 04
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004050605	A1	20040617	WO 2003-EP13279 <--	200311 26
W: BR, CA, CN, JP, KR, MX, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
BR 2003017022	A	20051025	BR 2003-17022 <--	200311 26
US 2006135389	A1	20060622	US 2005-537556 <--	200512 12

PRIORITY APPLN. INFO.:
EP 2002-27119 A 200212 04 <--
WO 2003-EP13279 A 200311 26 <--

OTHER SOURCE(S): MARPAT 141:25361

AB The quaternary ammonium compn. essentially consists of (a) a cationic compd. with general formula R1R2R3R4N+X- wherein R1 is C8-C22-alkyl, C8-C22-alkenyl, C8-C22-alkylamidopropyl, C8-C22-alkenyl-amidopropyl, C8-C22-alkyl/alkenyl(poly)alkoxyalkyl, C8-C22-alkanoylethyl or C8-C22-alkenoylethyl, R2, R3 and R4 are C1-C22-alkyl, C2-C22-alkenyl or a group of the formula -A-(OA)n-OH, A is -C2H4- and/or -C3H6-, n is a no. from 0 to 20 and X is an anion, (b) water and (c) a nonionic solvent of the general formula R-O-(AO)nH, where R is H, alkyl or alkenyl contg. 8 to 22 carbon atoms, or Ph, A is C2H4 and/or C3H6 and n is a no. from 0 to 20, which compn. is characterized in that it contains less than 20% of water. Thus, adding a 34% HCl 150 to a mixt. of C12/C14/C16 alc. polyglycol 7 EO 1460 and dimethylalkyl(C12/C14/C16)amine 324 g, after the exothermic reaction, mixing at 70-75° for 2 h gave a clear slightly yellow liq. which was then ethoxylated with

ethylene oxide to give a target product. The final product could be condensed to a high solid level while remaining liq.

IC ICM C07C211-63
ICS C07C213-04; C07C213-08; C11D001-835; C07C217-50; C11D001-62; C11D003-43

CC 46-5 (Surface Active Agents and Detergents)

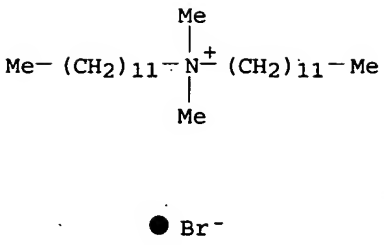
IT **Detergents**
(manuf. of concd. quaternary ammonium compn. for detergent)

L36 ANSWER 2 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:127243 HCAPLUS
DOCUMENT NUMBER: 138:305809
TITLE: **Compositions** of Mixed Surfactant Layers in Microemulsions Determined by Small-Angle Neutron Scattering
AUTHOR(S): Bumajdad, Ali; Eastoe, Julian; Nave, Sandrine; Steytler, David C.; Heenan, Richard K.; Grillo, Isabelle
CORPORATE SOURCE: Chemistry Department, Faculty of Science, Kuwait University, Safat, 13060, Kuwait
SOURCE: Langmuir (**2003**), 19(7), 2560-2567
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Surfactant mixing in model water-in-heptane microemulsion interfaces was investigated for blends of a cationic didodecyldimethylammonium bromide (DDAB) with polyethylene glycol monododecyl ethers (C12EJ, J = 3, 4, 5, 6, 7, 8, and 23). Phase behavior studies, elec. cond., and contrast variation small-angle neutron scattering (SANS) have been employed to delineate the effects of systematic variation of ethylene oxide headgroup size. These mixts. are characterized by an overall surfactant concn. (0.10 mol dm-3) and mole fraction of nonionic, which was varied up 0.20. The larger ethylene oxide (EO) nos. of 5-7 and 23 lead to significant enhancements in the max. microemulsion solubilization capacity compared to DDAB only, whereas the shortest surfactant employed, C12E3, caused a decrease in the phase stability. Microemulsion nanostructure and interfacial **compns.** were studied for the EO3, EO4, EO6, and EO7 systems in partial structure factor type SANS expts., as described before for the EO5 analog (Langmuir 1999, 15, 5271). Anal. of contrast variation SANS data showed that C12E7, C12E6, and C12E5 partition strongly into the DDAB layer. Under equiv. conditions the shorter EO chain surfactants C12E4 and C12E3 appear to adsorb much more weakly. Interfacial **compns.** detd. by SANS have been used to rationalize trends in phase behavior and nanostructure, highlighting the importance of partitioning effects with nonionics in multicomponent mixts. of this type.

IT **3282-73-3**, Didodecyldimethylammonium bromide
RL: NUU (Other use, unclassified); PRP (Properties); **USES (Uses)**
(**compns.** of didodecyldimethylammonium bromide-**polyethylene glycol** monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)

RN 3282-73-3 HCAPLUS
CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



CC 46-3 (**Surface Active** Agents and Detergents)
IT Surfactants
(cationic; **compns.** of didodecyldimethylammonium bromide-polyethylene glycol monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)
IT Electric conductivity
Microemulsions
(**compns.** of didodecyldimethylammonium bromide-polyethylene glycol monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)
IT Surfactants
(nonionic; **compns.** of didodecyldimethylammonium bromide-polyethylene glycol monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)
IT 142-82-5, n-Heptane, uses
RL: NUU (Other use, unclassified); **USES (Uses)**
(**compns.** of didodecyldimethylammonium bromide-polyethylene glycol monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)
IT 3055-94-5 3055-95-6, 3,6,9,12,15-Pentaoxaheptacosan-1-ol 3055-96-7, 3,6,9,12,15,18-Hexaoxatriacontan-1-ol 3055-97-8 3055-98-9 **3282-73-3**, Didodecyldimethylammonium bromide 5274-68-0, 3,6,9,12-Tetraoxatetracosan-1-ol 9002-92-0, Polyethylene glycol monododecyl ether
RL: NUU (Other use, unclassified); PRP (Properties); **USES (Uses)**
(**compns.** of didodecyldimethylammonium bromide-**polyethylene glycol** monododecyl ether mixed surfactant layers in microemulsions detd. by small-angle neutron scattering)
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 3 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:428954 HCAPLUS
DOCUMENT NUMBER: 137:21790
TITLE: **Compositions** containing copolymers based on acryloylaminodimethylethanesulfonic acid and synergistic additives
INVENTOR(S): Morschhaeuser, Roman; Kayser, Christoph; Loeffler, Matthias; Heier, Karl Heinz; Tardi, Aranka; Schade, Manfred; Botthof, Gernold
PATENT ASSIGNEE(S): Clariant Gmbh, Germany
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 16
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2002044230 A2 20020606 WO 2001-EP13859
200111
28
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WO 2002044230 A3 20021031
W: BR, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE, TR
DE 10059818 A1 20020613 DE 2000-10059818
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DE 10059819 A1 20020613 DE 2000-10059819
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DE 10059821 A1 20020613 DE 2000-10059821
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DE 10059822 A1 20020613 DE 2000-10059822
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DE 10127876 A1 20021212 DE 2001-10127876
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JP 2002327102 A2 20021115 JP 2001-296004
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BR 2001015764 A 20030916 BR 2001-15764
200111
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EP 1354001 A2 20031022 EP 2001-998569
200111
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR
US 2004109838 A1 20040610 US 2003-433119
200311
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US 7053146 B2 20060530
PRIORITY APPLN. INFO.: DE 2000-10059818 A
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DE 2000-10059828 A
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DE 2000-10059829 A

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DE 2000-10059831		A	200012 01
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DE 2000-10059833		A	200012 01
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DE 2001-10127876		A	200106 11
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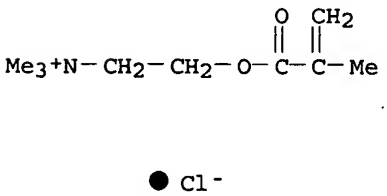
WO 2001-EP13859		W	200111 28
	<--		

AB The invention relates to **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts, in addn. to synergistic additives, selected from anionic, cationic, nonionic and/or betaine surfactants. Said **compns.** are characterized by a distinctive thermoassociative behavior and are particularly suitable as thickeners.

IT **5039-78-1DP**, Methacryloyloxyethyltrimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and diallyldimethylammonium chloride, reaction products with acrylic acid-vinylformamide copolymer **7398-69-8DP**, Diallyldimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and methacryloyloxyethyltrimethylammonium chloride, reaction products with acrylic acid-vinylformamide copolymer
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(**compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

RN 5039-78-1 HCAPLUS

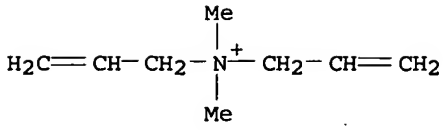
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 7398-69-8 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride (9CI) (CA INDEX NAME)



IC ICM C08F291-00
CC 46-4 (**Surface Active** Agents and Detergents)
IT Alcohols, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(C12-14, ethoxylated, Genapol LA 070; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Alcohols, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers with acryloylaminodimethylethanesulfonates; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(alkyl ethers, methacrylates, polymers with TMPTA and AMPS ammonium salts; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Surfactants
(anionic; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Surfactants
(cationic; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Cosmetics
Detergents
Drugs
Petroleum recovery
Polyelectrolytes
Thickening agents
(**compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Betaines
Fluoropolymers, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(**compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(ethers, reaction products, with acryloylaminodimethylethanesulfonate-based polymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Surfactants
(nonionic; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Agriculture and Agricultural chemistry
(plant protective agents; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Quaternary ammonium compounds, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polysiloxanes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polyoxyalkylene-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; **compns** . contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(polysiloxane-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; **compns** . contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(reaction products with acryloylaminodimethylethanesulfonate-based copolymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(reaction products, with acryloylaminodimethylethanesulfonate-based polymers; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Alcohols, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(tallow, ethoxylated, Genapol, (meth)acrylates, polymers with acryloylaminodimethylethanesulfonates; **compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT 79-41-4DP, Methacrylic acid, esters with polyoxyalkylene, polymers with TMPTA and AMPS ammonium salt 88-12-0DP, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone **5039-78-1DP**, Methacryloyloxyethyltrimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and diallyldimethylammonium chloride, reaction products with acrylic acid-vinylformamide copolymer 5039-78-1DP, 2-Methacryloyloxyethyltrimethylammonium chloride, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and vinylpyrrolidone, reaction products with polyvinylpyrrolidone **7398-69-8DP**, Diallyldimethylammonium chloride, polymers with AMPS ammonium salt, **polyethylene glycol** monocrotonate C12-14-alkyl ethers and methacryloyloxyethyltrimethyla

mmonium chloride, reaction products with acrylic acid-vinylformamide copolymer 7664-93-9DP, Sulfuric acid, esters with fatty alcs., salts 9002-92-0P, Polyethylene glycol lauryl ether 9003-01-4DP, Polyacrylic acid, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-05-8DP, Polyacrylamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 9003-39-8DP, K-30, reaction products with copolymers of acryloylaminodimethylethanesulfonate salts 9004-77-7P, Polyethylene glycol butyl ether 15214-89-8DP, AMPS, polymers with polyoxyalkylene (meth)acrylates and methacrylamidoethyltrimethylammonium chloride 15625-89-5DP, TMPTA, polymers with polyoxyalkylene methacrylates and AMPS ammonium salt 25087-26-7DP, Polymethacrylic acid, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25189-83-7DP, Poly-N-vinylcaprolactam, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25322-68-3DP, Polyethylene glycol, alkyl ethers, methacrylates, polymers with TMPTA and AMPS ammonium salts 25322-69-4DP, Polypropylene glycol, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 25736-86-1DP, Polyethylene glycol monomethacrylate, C12-14-alkyl ethers, polymers with polyoxyalkylene acrylates, methacrylamidoethyltrimethylammonium chloride, and AMPS 25852-47-5DP, Polyethylene glycol dimethacrylate, polymers with AMPS ammonium salt, ethoxylated polysiloxane methacrylate, and polyoxyalkylene acrylate 26062-79-3DP, Polydiallyldimethylammonium chloride, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 26616-03-5DP, Poly-N-vinyl-N-methylacetamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 28408-65-3DP, Poly-N-vinylacetamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 31851-82-8DP, Poly-N-vinylmorpholine, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 58374-69-9DP, polymers with polyoxyalkylene methacrylates and TMPTA 72018-12-3DP, Poly-N-vinylformamide, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with acryloylaminodimethylethanesulfonate-based copolymers 434337-19-6P 434337-20-9P 434938-17-7P 435278-89-0P
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); **USES (Uses)**
(**compns.** contg. copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

L36 ANSWER 4 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:823346 HCAPLUS
DOCUMENT NUMBER: 135:359419
TITLE: Polyethylene glycol alkyl ether sulfates with narrow molecular weight distribution, their manufacture, and their liquid detergent **compositions** with good cleaning ability, foamability, and storage stability, and low skin irritation
INVENTOR(S): Oyaizu, Takahisa; Oyama, Akira; Yoshiya, Masahisa; Nishio, Hiroshi
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001316352	A2	20011113	JP 2000-135804	20000509

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PRIORITY APPLN. INFO.: JP 2000-135804 20000509

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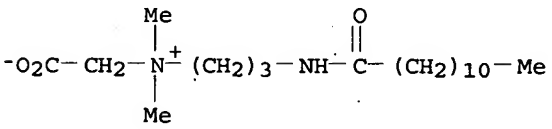
AB R1O(CH2CH2)nSO3M (R1 = linear or branched C6-24 alkyl, alkenyl; n = av. 1-6; M = H, alkali metal ion, alk. earth metal ion, NH4+, C2-3 mono-, di-, trialkanolammonium), whose 55-75% have d.p. (nA - 1) to (nA + 1) (nA = peak d.p. in mol. wt. distribution curve), and which contain ≤30 ppm 1,4-dioxane, are manufd. by addn. of ethylene oxide to alcs. in the presence of Mg-based mixed metal oxides as alkoxylation catalysts, removing the catalysts, and sulfation. Thus, Conol 20P (n-dodecanol) and Diadol 13 (linear and branched tridecanol) were autoclaved with ethylene oxide in the presence of AlMgMnOx (x = valance), filtered, the filtrate sulfonated with SO3 in a thin-film reactor, and neutralized with aq. NaOH to give polyethylene glycol ether sulfate salt (65% of which showed d.p. 1-3) contg. 25 ppm dioxane.

IT **4292-10-8**
RL: TEM (Technical or engineered material use); **USES (Uses)**
(manuf. of **polyethylene glycol** alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

RN 4292-10-8 HCAPLUS

CN 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxododecyl)amino]-, inner salt (9CI) (CA INDEX NAME)



IC ICM C07C305-06
ICS A61K007-075; C07C303-24; C11D001-29; C11D001-75; C11D001-90; C11D017-08; C07B061-00

CC 46-3 (**Surface Active** Agents and Detergents)

IT Sulfonates
RL: TEM (Technical or engineered material use); **USES (Uses)**
(1-alkene, C14, sodium salts; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT Group VIB element compounds
Group VIIB element compounds
Group VIII element compounds
RL: CAT (Catalyst use); **USES (Uses)**
(mixed metal oxides; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT 66578-96-9P, Aluminum magnesium manganese oxide
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); **USES (Uses)**
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. detergents)

IT 98-11-3D, Benzenesulfonic acid, alkylated, sodium salts, uses
1643-20-5, Lauryldimethylamine oxide **4292-10-8**
RL: TEM. (Technical or engineered material use); **USES (Uses)**
(manuf. of **polyethylene glycol** alkyl ether
sulfates with narrow mol. wt. distribution and low dioxane
content for liq. detergents)
IT 9004-82-4P 54116-08-4P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
(Technical or engineered material use); PREP (Preparation);
USES (Uses)
(oligomeric; manuf. of polyethylene glycol alkyl ether sulfates
with narrow mol. wt. distribution and low dioxane content for
liq. detergents)

L36 ANSWER 5 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:707264 HCAPLUS
DOCUMENT NUMBER: 133:283339
TITLE: Solid block pot and pan detergent
INVENTOR(S): Klaers, Karen G.; Bailly, Helen B.
PATENT ASSIGNEE(S): Ecolab Inc., USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000058436	A1	20001005	WO 1999-US24341	19991019
			<--	
W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6387870	B1	20020514	US 1999-282001	19990329
			<--	
CA 2368428	AA	20001005	CA 1999-2368428	19991019
			<--	
US 2002107164	A1	20020808	US 2002-68144	20020206
			<--	
US 6608023	B2	20030819		
US 2004121935	A1	20040624	US 2003-643018	20030818
			<--	
PRIORITY APPLN. INFO.:			US 1999-282001 A	19990329
			<--	
			WO 1999-US24341 W	

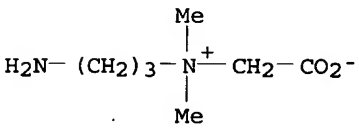
199910
19
<--
US 2002-68144 A1
200202
06
<--

AB A title detergent comprises a formulation dispersed in an org. solidification matrix. It can be dispensed with a H2O spray to form an aq. detergent for cutting and removing grease, removing and suspending soils and rinsing easily leaving cleaned ware. The aq. detergent conc. can be used in a cleaning liq. having exceptional soil- and esp. grease-removing properties with stable foam properties. The solid block detergent contains a package of surfactants including a neutralized anionic surfactant with either 1 or a mixt. of an alkali and alk. earth metal salt thereof and an alkyl polyglycoside. The active ingredients and polyethylene glycol as a hardening agent are dispersed in a matrix which hardens to form a solid block.

IT **36574-66-0D**, N-coco acyl derivs.
RL: TEM (Technical or engineered material use); **USES (Uses)**
(Cocoamidopropyl betaine, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and **polyethylene glycol** as hardener)

RN 36574-66-0 HCAPLUS

CN 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



IC ICM C11D017-00
ICS C11D001-86; C11D001-94; C11D003-37; C11D003-02

CC 46-6 (**Surface Active** Agents and Detergents)

IT Glycosides
RL: TEM (Technical or engineered material use); **USES (Uses)**
(alkyl polyglycosides; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT **Surfactants**
(amphoteric; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT **Surfactants**
(anionic, alkali or alk. earth metals salts; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT Amides, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(coco, N-(hydroxyethyl), surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)

IT **Detergents**
(dishwashing, solid; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(ethoxylated, sulfates, sodium salts, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and

alkyl glycosides and inorg. salt as hardener)

IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(hardener; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)

IT **Surfactants**
(nonionic; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT Salts, uses
RL: NUU (Other use, unclassified); **USES (Uses)**
(solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)

IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(sulfo-terminated, lauryl ethers, sodium salts, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and inorg. salt as hardener)

IT **36574-66-0D**, N-coco acyl derivs.
RL: TEM (Technical or engineered material use); **USES (Uses)**
(Cocoamidopropyl betaine, surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and **polyethylene glycol** as hardener)

IT 25322-68-3, Polyethylene glycol
RL: TEM (Technical or engineered material use); **USES (Uses)**
(hardener; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)

IT 127-09-3, Sodium acetate 142-72-3, Magnesium acetate 10034-99-8, Magnesium sulfate heptahydrate
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); **USES (Uses)**
(solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT 25191-16-6D, Polyglucose, lauryl ether
RL: TEM (Technical or engineered material use); **USES (Uses)**
(solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT 142-78-9
RL: TEM (Technical or engineered material use); **USES (Uses)**
(surfactant; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as hardener)

IT 27176-87-0D, Dodecylbenzenesulfonic acid, salts
RL: TEM (Technical or engineered material use); **USES (Uses)**
(surfactants; solid block pot and pan detergent contg. neutralized anionic surfactants and alkyl glycosides and polyethylene glycol as)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 6 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:412378 HCAPLUS
DOCUMENT NUMBER: 133:60465
TITLE: Detergent **compositions** and their production method
INVENTOR(S): Okamoto, Mitsue; Nakanishi, Yoshinori; Yamamoto, Koji
PATENT ASSIGNEE(S): New Japan Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169887	A2	20000620	JP 1998-349539	19981209

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PRIORITY APPLN. INFO.: JP 1998-349539 19981209

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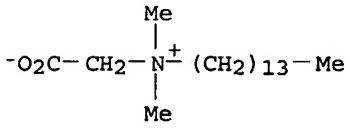
AB The **compns.**, useful for dishwashing detergents, laundry detergents, shampoos, etc., contain 0.1-10% ≥1 tackifier R1O(CH2CH2O)aR2 (R1, R2 = C12-28 alkyl or alkenyl; a = 50-100) and 1-50% ≥1 surfactant. Thus, a detergent contg. polyethylene glycol (a = 50) lauryl myristyl ether 20, polyethylene glycol lauryl ether sodium sulfate 20, and water 77% had viscosity 1575 mPa-s at 25°.

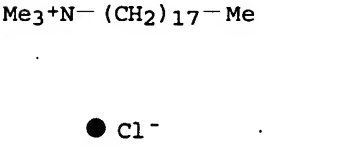
IT **2601-33-4**
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(detergents contg. **polyethylene glycol** ethers as tackifiers)

RN 2601-33-4 HCAPLUS
CN 1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)

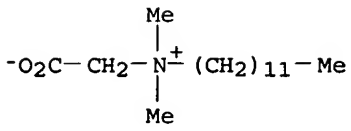


IT **112-03-8**, Stearyltrimethylammonium chloride **683-10-3**
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(surfactants; detergents contg. **polyethylene glycol** ethers as tackifiers)

RN 112-03-8 HCAPLUS
CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 683-10-3 HCAPLUS
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



IC ICM C11D003-37
ICS C11D003-32
CC 46-6 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 62
IT Sulfonic acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(1-alkenesulfonic, sodium salts, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
IT Amides, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, N,N-bis(hydroxyethyl), ethoxylated, sodium sulfate, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
IT Amides, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, propyl-betaines, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
IT Fatty acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(coco, triethanolamine salts; detergents contg. polyethylene glycol ethers as tackifiers)
IT Polyoxyalkylenes, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(ethers, surfactants; detergents contg. polyethylene glycol ethers as tackifiers)
IT 137-16-6, Lauroylsarcosine sodium salt **2601-33-4**
16693-53-1 27306-76-9, Polyethylene glycol cetyl stearyl ether
38732-22-8D, L-Glutamic acid monotriethanolamine salt, cocoyl derivs. 155731-66-1, Polyethylene glycol lauryl myristyl ether
204578-25-6, Polyethylene glycol lauryl stearyl ether
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(detergents contg. **polyethylene glycol** ethers as tackifiers)
IT **112-03-8**, Stearyltrimethylammonium chloride 151-21-3, Sodium laurylsulfate, uses 288-32-4D, Imidazole, betaines **683-10-3** 9002-92-0, Polyethylene glycol lauryl ether
9004-82-4, Polyethylene glycol lauryl ether sodium sulfate
21539-58-2, N-Lauroyl N-methyl-β-alanine sodium salt
25322-68-3D, Polyethylene glycol, ethers 26256-79-1 32612-48-9, Polyethylene glycol monolauryl ether ammonium sulfate 33939-64-9
54884-41-2 58450-52-5, Polyethylene glycol monolauryl ether sulfosuccinate disodium salt 89353-55-9, N-Lauroyl N-methyl-β-alanine triethanolamine salt
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(surfactants; detergents contg. **polyethylene glycol** ethers as tackifiers)

L36 ANSWER 7 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:518278 HCAPLUS
DOCUMENT NUMBER: 131:159163
TITLE: Liquid fabric-softening **compositions**

containing a fatty alcohol ethoxylate diurethane polymer as a thickener

INVENTOR(S): Ewbank, Eric; Collard, Catherine; Tummers, Dominique; Breuer, Ericka; Thibert, Eric

PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA

SOURCE: U.S., 6 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5939377	A	19990817	US 1998-119514	199807 20 <--
US 6001797	A	19991214	US 1998-159359	199809 23 <--
WO 2000004118	A1	20000127	WO 1999-US16327	199907 19 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9951130	A1	20000207	AU 1999-51130	199907 19 <--
EP 1098954	A1	20010516	EP 1999-935706	199907 19 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.:		
US 1998-119514	A2	199807 20 <--
US 1998-159359	A	199809 23 <--
WO 1999-US16327	W	199907 19 <--

OTHER SOURCE(S): MARPAT 131:159163

AB A stable, pourable and water-dispersible liq. fabric-softening **compn.** comprises (a) .apprx.2-25% quaternary ammonium compd. and/or amine compd. fabric softeners; (b) 0-10% co-softening ingredient; and (c) .apprx.0.02-3% of a fatty alc. ethoxylate-diurethane polymer R1(OCH2CH2)xOC(:O)NH(CH2CH2)mNHC(:O)O(CH2CH2O)x (sic), where R1, R2 are independently C12-24 alkyl; m = 1-5; x = 50-250, as a thickener to provide com. desirable

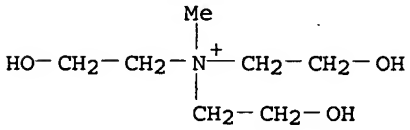
viscosities without adversely affecting the phys. stability of the **compn.** The balance of the **compn.** is comprised of water and optional ingredients such as an acid, an emulsifier and adjuvants. Thus, an aq. **compn.** (pH 2.5) contg. Tetranyl AT 1-75 [ditallow alkyl tris(2-hydroxyethyl)methyl ammonium Me sulfates] 3.88, C16-18 fatty alc. 0.82, Synperonic A 20 0.20, perfume 0.32, colorant 0.004, lactic/lactate soln. 0.063, and polymer thickener (25% active polymer in an 80:20 water-Bu diglycol mixt.) 0.075 wt.% showed viscosity 163 cP after 1 day at room temp. and 138 cP after 6 wk, compared with 356 and phase sepn., resp., using Rheolate 255 polyether-polyurethane thickener.

IT **29463-06-7D**, Methyltriethanolammonium methyl sulfate, di(tallow alkyl) esters
RL: TEM (Technical or engineered material use); **USES (Uses)**
(softener; liq. fabric-softening **compns.** contg. a **fatty alc. ethoxylate** diurethane polymer as a thickener)

RN 29463-06-7 HCAPLUS
CN Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

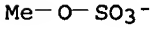
CM 1

CRN 44971-58-6
CMF C7 H18 N O3



CM 2

CRN 21228-90-0
CMF C H3 O4 S



IC ICM C11D003-37
INCL 510475000
CC 46-5 (**Surface Active** Agents and Detergents)

IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(C13-15, ethoxylated, Synperonic A 20, co-softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(C16-18, co-softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Amines, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(amido, partially hydrogenated, softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(ethers with alkylenedicarbamic acids and fatty alcs., thickener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)

IT Quaternary ammonium compounds, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(fatty esters, softener; liq. fabric-softening **compns.** contg. a fatty alc..ethoxylate diurethane polymer as a thickener)
IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(fatty, co-softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)
IT Fabric softeners
Thickening agents
(liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)
IT Amines, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)
IT 12441-09-7D, Sorbitan, esters 25496-72-4, Glycerol monooleate
RL: TEM (Technical or engineered material use); **USES (Uses)**
(co-softener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)
IT **29463-06-7D**, Methyltriethanolammonium methyl sulfate, di(tallow alkyl) esters 188736-02-9, Rewopal V 3340 236734-28-4, Tetranyl AT 1-75
RL: TEM (Technical or engineered material use); **USES (Uses)**
(softener; liq. fabric-softening **compns.** contg. a **fatty alc. ethoxylate** diurethane polymer as a thickener)
IT 25322-68-3D, Poly(ethylene oxide), ethers with alkylenedicarbamic acids and fatty alcs. 40021-82-7D, fatty alkyl ethers 252319-05-4D, fatty alkyl ethers 252320-10-8D, fatty alkyl ethers 252321-03-2D, fatty alkyl ethers 252321-12-3D, fatty alkyl ethers
RL: TEM (Technical or engineered material use); **USES (Uses)**
(thickener; liq. fabric-softening **compns.** contg. a fatty alc. ethoxylate diurethane polymer as a thickener)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 8 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:405067 HCAPLUS
DOCUMENT NUMBER: 131:46371
TITLE: Antimicrobial multipurpose microemulsion cleaner containing a cationic surfactant/disinfectant
INVENTOR(S): Fonsny, Pierre; Burke, Julie; Dormal, Didier
PATENT ASSIGNEE(S): Colgate-Palmolive Company, USA
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9931216	A1	19990624	WO 1998-US26264	199812 10

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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 5911915 A 19990615 US 1997-989344 199712 12 <--

AU 9918150 A1 19990705 AU 1999-18150 199812 10 <--

PRIORITY APPLN. INFO.: US 1997-989344 A 199712 12 <--

US 1998-109690 A 199807 02 <--

WO 1998-US26264 W 199812 10 <--

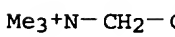
OTHER SOURCE(S): MARPAT 131:46371

AB Microemulsion **compns.** which are esp. effective in disinfecting and in the removal of oily and greasy soil without leaving streaks contain a mixt. of 0.1-20% (each) ≥1 nonionic surfactant, a cationic surfactant and an amphoteric surfactant mixt., 0.05-3% hydrocarbon ingredient, natural disinfectant ingredients, 1-12% water-sol. solvent, a pH buffer, and H2O. An example cleaner contained propylene glycol Bu ether 3.0, EtOH 1.0, diethylene glycol Bu ether 1.0, cocoamidopropyl betaine 3.0, Bardac 2170 0.72, ethoxylated alc. 1.55, triethanolamine 0.1, perfume 0.3%, and the balance water.

IT **107-43-7D**, Betaine, alkyl derivs. **7173-51-5**, Bardac 22
RL: TEM (Technical or engineered material use); **USES (Uses)**
(antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and **fatty alc.** nonionic, and amphoteric surfactant mixt.)

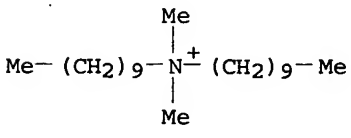
RN 107-43-7 HCAPLUS

CN Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



IC ICM C11D017-00
ICS C11D001-94; C11D003-48; C11D003-18; C11D003-50; C11D001-72; C11D001-40; C11D001-62; C11D001-75

CC 46-5 (**Surface Active** Agents and Detergents)
IT Alcohols, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(C9-11, ethoxylated; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
IT 138698-36-9, Bardac 2170
RL: TEM (Technical or engineered material use); **USES (Uses)**
(Bardac 2170, Bardac 2180; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
IT **107-43-7D**, Betaine, alkyl derivs. 1643-20-5, Barlox 12i
7173-51-5, Bardac 22 129495-12-1, Amphionic SFB
165755-21-5, Tomah AO 14-2
RL: TEM (Technical or engineered material use); **USES (Uses)**
(antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and **fatty alc.**
nonionic, and amphoteric surfactant mixt.)
IT 112-34-5, Diethylene glycol n-butyl ether 29387-86-8, Propylene glycol monobutyl ether
RL: TEM (Technical or engineered material use); **USES (Uses)**
(solvent; antimicrobial multipurpose microemulsion cleaner contg. a cationic, amine oxide and fatty alc. nonionic, and amphoteric surfactant mixt.)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 9 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:49398 HCAPLUS
DOCUMENT NUMBER: 130:97219
TITLE: Liquid dishwashing detergent **compositions** with good foaming properties and detergency to oil stains
INVENTOR(S): Morii, Noriyuki; Aida, Yoshihiro
PATENT ASSIGNEE(S): Kao Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11012594	A2	19990119	JP 1997-164015 <--	19970620
JP 3730752	B2	20060105		

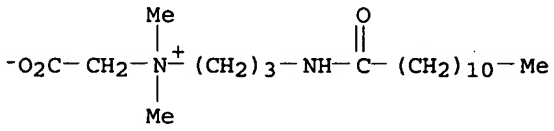
PRIORITY APPLN. INFO.: JP 1997-164015 <-- 19970620

AB Title **compns.** contain (a) block polymer RO(EO)x(PO)y(EO)x'H (R = C8-22 linear or branched alkyl or alkenyl; EO = oxyethylene; PO = oxypropylene; x + x' = 4-20; y = 0.5-6), (b) sulfate- or sulfonate-type anionic surfactants, (c) amphoteric, amine oxide-type, or fatty acid diethanolamide-type surfactants. Thus, a dishwashing detergent comprising polyoxyethylene lauryl ether sulfate 18, lauryldimethylamine oxide 7, EtOH 5, H2O 65, and C12H25(EO)2(PO)2(EO)3H 5 parts showed good foaming properties and detergency to oil stains.
IT **4292-10-8**, N-(Dodecylamidopropyl)-N,N-dimethylammonium betaine

RL: TEM (Technical or engineered material use); **USES (Uses)**
(liq. dishwashing detergent **compns.** contg.
ethylene oxide-**propylene** oxide **block**
copolymer monoethers and surfactants)

RN 4292-10-8 HCAPLUS

CN 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-[(1-oxododecyl)amino]-, inner salt (9CI) (CA INDEX NAME)



IC ICM C11D001-722
ICS C11D001-14; C11D001-16; C11D001-24; C11D001-52; C11D001-75; C11D001-83; C11D001-835; C11D001-90; C11D001-92; C11D001-94

CC 46-6 (**Surface Active** Agents and Detergents)

IT Sulfonates
RL: TEM (Technical or engineered material use); **USES (Uses)**
(1-alkene; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and surfactants)

IT Amides, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(N-(hydroxyalkyl); liq. dishwashing detergent **compns.**
contg. ethylene oxide-propylene oxide block copolymer monoethers and surfactants)

IT Surfactants
(amphoteric; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and surfactants)

IT Surfactants
(anionic; liq. dishwashing detergent **compns.** contg.
ethylene oxide-propylene oxide block copolymer monoethers and surfactants)

IT Detergents
Detergents
(dishwashing, liq.; liq. dishwashing detergent **compns.**
contg. ethylene oxide-propylene oxide block copolymer monoethers and surfactants)

IT Amine oxides
Sulfates, uses
Sulfonates
RL: TEM (Technical or engineered material use); **USES (Uses)**
(liq. dishwashing detergent **compns.** contg. ethylene
oxide-propylene oxide block copolymer monoethers and surfactants)

IT Fatty acids, uses
RL: TEM (Technical or engineered material use); **USES (Uses)**
(palm-oil, diethanolamide; liq. dishwashing detergent
compns. contg. ethylene oxide-propylene oxide block
copolymer monoethers and surfactants)

IT 1643-20-5, Lauryldimethylamine oxide **4292-10-8**,
N-(Dodecylamidopropyl)-N,N-dimethylammonium betaine 26183-44-8,
Polyoxyethylene lauryl ether sulfate 106392-12-5D, Ethylene
oxide-propylene oxide block copolymer, monoalkyl or monoalkenyl
ether 113609-82-8, Ethylene oxide-propylene oxide block copolymer
monolauryl ether
RL: TEM (Technical or engineered material use); **USES (Uses)**
(liq. dishwashing detergent **compns.** contg.
ethylene oxide-**propylene** oxide **block**
copolymer monoethers and surfactants)

L36 ANSWER 10 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:229103 HCAPLUS
DOCUMENT NUMBER: 128:258755
TITLE: Powd., flake, and granulated surfactant mixtures and their manufacture and use
INVENTOR(S): Racky, Ernst Dieter
PATENT ASSIGNEE(S): Wella A.-G., Germany
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

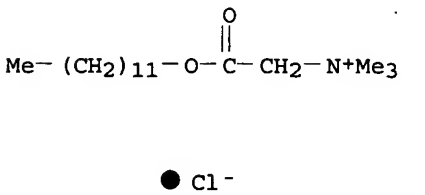
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19640086	A1	19980409	DE 1996-19640086	19960928
			<--	
DE 19640086	C2	19980917		
PRIORITY APPLN. INFO.:			DE 1996-19640086	19960928
			<--	

OTHER SOURCE(S): MARPAT 128:258755

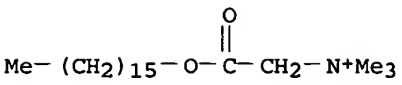
AB Powd., flake, and granulated mixts. with good restoring properties, water dispersibility, storage stability, and biodegradability, useful in cleaning agents, textile treatment **compns.**, disinfectants, cosmetics, and pharmaceuticals, contain 1-2 parts ≥1 R1OCOCH2NR23X (R1 = C8-22 hydrocarbyl, R2 = C1-3 alkyl, X = halide, sulfate, methosulfate, or phosphate anion) and 1-20 parts ≥1 of (un)satd., (branched) C10-22 fatty alc., and (un)satd. C10-22 fatty acid.

IT **2629-75-6**, Betaine lauryl ester chloride **52132-48-6**, Betaine cetyl ester chloride **54514-50-0**, Betaine myristyl ester chloride **75163-83-6**, Betaine stearyl ester chloride
RL: PRP (Properties); TEM (Technical or engineered material use); **USES (Uses)**
(powd., flake, and granulated mixts. of betaine ester salts and **fatty alcs.** or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)

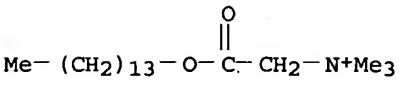
RN 2629-75-6 HCAPLUS
CN Ethanaminium, 2-(dodecyloxy)-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



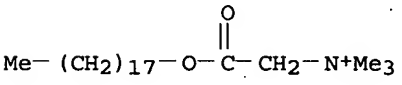
RN 52132-48-6 HCAPLUS
CN Ethanaminium, 2-(hexadecyloxy)-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)



RN 54514-50-0 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-oxo-2-(tetradecyloxy)-, chloride (9CI) (CA INDEX NAME)



RN 75163-83-6 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-(octadecyloxy)-2-oxo-, chloride (9CI) (CA INDEX NAME)



IC ICM C11D001-90
ICS B01F017-28; D06M013-342; A61K007-50; A61K007-48; A61K007-11; A61K007-13
CC 46-6 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 40, 62, 63
IT Fatty acids, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(C10-22; powd., flake, and granulated mixts. of betaine esters and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)
IT Esters, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(betaine salts; powd., flake, and granulated mixts. of betaine esters and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)
IT Betaines
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(esters, salts; powd., flake, and granulated mixts. of betaine esters and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)
IT Alcohols, uses
RL: PRP (Properties); TEM (Technical or engineered material use);

USES (Uses)
(fatty, C10-22; powd., flake, and granulated mixts. of betaine esters and fatty alcs. or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)

IT 112-53-8, Lauryl alcohol 112-92-5, Stearylalcohol **2629-75-6**, Betaine lauryl ester chloride 5333-42-6, Eutanol G 30399-84-9, Isostearic acid 36653-82-4, Cetyl alcohol **52132-48-6**, Betaine cetyl ester chloride **54514-50-0**, Betaine myristyl ester chloride **75163-83-6**, Betaine stearyl ester chloride
RL: PRP (Properties); TEM (Technical or engineered material use); **USES (Uses)**
(powd., flake, and granulated mixts. of betaine ester salts and **fatty alcs.** or acids with good storage stability, water dispersibility, restoring properties, and biodegradability)

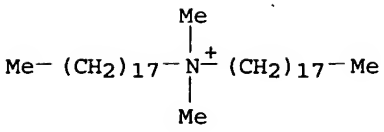
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 11 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:488773 HCAPLUS
DOCUMENT NUMBER: 122:242789
TITLE: Behavior of surfactants in aqueous two phase systems
AUTHOR(S): Save, Sanjiv V.; Pangarkar, Vishwas G.
CORPORATE SOURCE: Dep. Chem. Technology, Univ. Bombay, Bombay, 400 019, India
SOURCE: Bioseparation (**1995**), 5(1), 27-33
CODEN: BISPE4; ISSN: 0923-179X
PUBLISHER: Kluwer
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Partitioning of various surfactants was studied in polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems. The results show that anionic surfactants favor polyethylene glycol phases while cationic surfactants prefer salt or dextran phases. In the case of nonionic surfactants, partition coeffs. favoring both phases are obtained in a manner depending on the surfactant nature. These results are explained on the basis of polymer-surfactant interactions. Further, effects of pH and phase **compns.** on partition coeffs. are also investigated. Zaslavsky's model relating the no. of -CH2- groups present in the solute to its partition coeff. is applied to the results obtained for ionic surfactants.

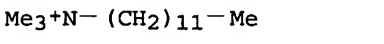
IT **107-64-2**, Dimethyl distearyl ammonium chloride **112-00-5**, Dodecyltrimethylammonium chloride **112-02-7**, Cetyltrimethylammonium chloride
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(partitioning of surfactants in aq. **polyethylene glycol**-sodium sulfate and dextran-**polyethylene glycol** systems)

RN 107-64-2 HCAPLUS
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



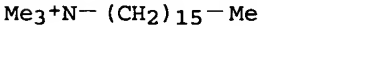
● Cl^-

RN 112-00-5 HCAPLUS
CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl^-

RN 112-02-7 HCAPLUS
CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl^-

CC 46-3 (**Surface Active** Agents and Detergents)
IT 7757-82-6, Sodium sulfate, uses 9004-54-0, Dextran, uses 25322-68-3, Polyethylene glycol
RL: NUU (Other use, unclassified); **USES (Uses)**
(partitioning of surfactants in aq. polyethylene glycol-sodium sulfate and dextran-polyethylene glycol systems)
IT **107-64-2**, Dimethyl distearyl ammonium chloride **112-00-5**, Dodecyltrimethylammonium chloride **112-02-7**, Cetyltrimethylammonium chloride 123-03-5, Cetylpyridinium chloride 151-21-3, SDS, properties 9002-93-1, Triton x 100 25155-30-0, Sodium dodecylbenzenesulfonate
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(partitioning of surfactants in aq. **polyethylene glycol**-sodium sulfate and dextran-**polyethylene glycol** systems)

L36 ANSWER 12 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:541638 HCAPLUS
DOCUMENT NUMBER: 119:141638
TITLE: Preparation of oil-in-water miniemulsions from long-chain fatty alcohols
AUTHOR(S): Dai, Lerong; Jin, Yi; Li, Wailang
CORPORATE SOURCE: Inst. Phys. Chem., Peking Univ., Beijing, 100871, Peop. Rep. China
SOURCE: Yingyong Huaxue (**1993**), 10(3), 57-9
CODEN: YIHUED; ISSN: 1000-0518
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB The stable oil-in-water miniemulsion were prepd. using mixed emulsifier comprising a mixt. of cationic surfactants (quaternary ammonium compds.) and long-chain fatty alcs. (C8-16) in low concn. The chain length of the fatty alcs. and mole ratio of surfactant to fatty alc. appeared to be an important factor influencing the formation of the miniemulsions. The temp. of emulsification, property of the oil phase, and vol. fraction of the internal phase also affected the oil droplet size and stability of the emulsion. The stabilization of emulsions was interpreted in terms of the formation of the lyotropic liq. crystals.

IT **57-09-0P**, Cetyltrimethylammonium bromide **1119-94-4P**, Dodecyltrimethylammonium bromide **1119-97-7P**, Tetradecyltrimethylammonium bromide
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); **USES (Uses)**
(surfactants, oil-in-water miniemulsions, contg. long-chain **fatty alcs.**, prepn. of)

RN 57-09-0 HCAPLUS
CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$Me_3{}^+N-(CH_2)_{15}-Me$

● Br^-

RN 1119-94-4 HCAPLUS
CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$Me_3{}^+N-(CH_2)_{11}-Me$

● Br^-

RN 1119-97-7 HCAPLUS
CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$Me_3{}^+N-(CH_2)_{13}-Me$

● Br^-

CC 46-4 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 75

IT Kerosine
RL: **USES (Uses)**
(long-chain fatty alc.-ionic surfactant mixed emulsifiers for, emulsion stability in relation to)

IT Electric conductivity and conduction
(of quaternary ammonium compd. surfactant-long-chain fatty alc. oil-in-water miniemulsions, effect of aging and **compn.** on)

IT Quaternary ammonium compounds, preparation
RL: TEM (Technical or engineered material use); **USES (Uses)**

(surfactants, miniemulsions, contg. long-chain fatty alcs., prepn. of)

IT 108-88-3, Toluene, uses
RL: **USES (Uses)**
(long-chain fatty alc.-ionic surfactant mixed emulsifiers for, emulsion stability in relation to)

IT **57-09-0P**, Cetyltrimethylammonium bromide 151-21-3P, Sodium dodecyl sulfate, uses **1119-94-4P**, Dodecyltrimethylammonium bromide **1119-97-7P**, Tetradecyltrimethylammonium bromide
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); **USES (Uses)**
(surfactants, oil-in-water miniemulsions, contg. long-chain **fatty alcs.**, prepn. of)

L36 ANSWER 13 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:26216 HCAPLUS
DOCUMENT NUMBER: 114:26216
TITLE: Fragrance-retaining **compositions** for cleaning **compositions**
INVENTOR(S): Watanabe, Yoji; Kiyama, Kentaro; Yasue, Ryoji; Takano, Kuniko
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02242899	A2	19900927	JP 1989-63351	19890315

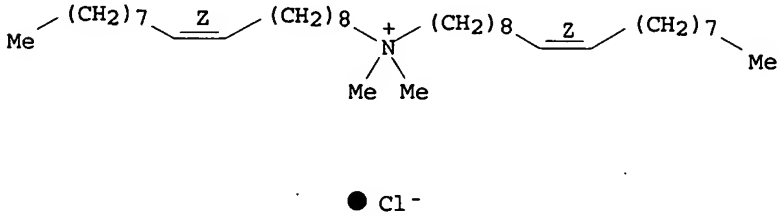
PRIORITY APPLN. INFO.: JP 1989-63351 19890315

AB Fragrance-retaining **compns.** contain perfumes, polyethylene glycol (I), and cationic polymers are used in detergents, shampoos, bleaching agents, etc. Thus, I 40, perfumes, 10, and cationic starches 50, were mixed, pulverized, and used in detergent.

IT **7212-69-3**, Dimethyldioleylammonium chloride
RL: **USES (Uses)**
(softening agents, contg. encapsulated **polyethylene glycol** and perfume and cationic starch)

RN 7212-69-3 HCAPLUS
CN 9-Octadecen-1-aminium, N,N-dimethyl-N-(9Z)-9-octadecenyl-, chloride, (9Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C11D003-50
ICS A61K007-46; C11B009-00; C11D009-44

CC 46-5 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 62
IT Perfumes and Essences
(capsules contg. polyethylene glycol and cationic starch and, for cleaning **compns.**)
IT Detergents
Shampoos
Soaps
RL: **USES (Uses)**
(contg. capsulated polyethylene glycol and perfume and cationic starch)
IT Capsules
(contg. polyethylene glycol and perfume and cationic starch, for cleaning **compns.**)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(bis(hydrogenated tallow alkyl)dimethyl, chlorides, softening agents, contg. capsulated polyethylene glycol and perfume and cationic starch)
IT 3313-92-6, Sodium percarbonate
RL: **USES (Uses)**
(bleaching agents, contg. capsulated polyethylene glycol and perfume and cationic starch)
IT 25322-68-3, Polyethylene glycol
RL: **USES (Uses)**
(capsules contg. perfume and cationic starch and, for perfume **compns.**)
IT 9005-25-8D, Starch, cationic derivs.
RL: **USES (Uses)**
(capsules contg. polyethylene glycol and perfumes and, for cleaning **compns.**)
IT **7212-69-3**, Dimethyldioleylammonium chloride
RL: **USES (Uses)**
(softening agents, contg. encapsulated **polyethylene glycol** and perfume and cationic starch)

L36 ANSWER 14 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:35926 HCAPLUS
DOCUMENT NUMBER: 104:35926
TITLE: Additives and **compositions** for powdered detergents
INVENTOR(S): Sato, Teruyuki; Kawato, Toshiyuki
PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60192800	A2	19851001	JP 1984-48888	19840313

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PRIORITY APPLN. INFO.: JP 1984-48888 19840313

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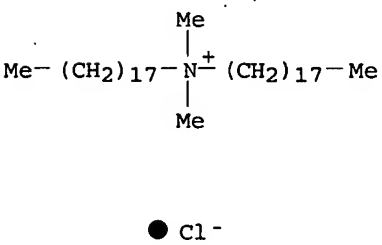
AB Additives contain solid water-sol. poly(oxyethylene) ethers having no hydrophobic groups and di-C10-22-alkyldimethylammonium salts in ratios (20-80):(20-80) and are added to detergents in amts. 1-10%. Thus, 40 parts polyethylene glycol (mol. wt. 6000) and 60 parts (C18H37)2Me2NCl were melted, mixed, cooled, pulverized, and added

(3%) to a detergent, and the detergent had good detergency and softening properties.

IT **107-64-2**
RL: **USES (Uses)**
(**polyethylene glycol** blends, softening agents, for detergents)

RN 107-64-2 HCAPLUS
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



IC ICM C11D003-30
ICS C11D003-37
CC 46-5 (**Surface Active** Agents and Detergents)
IT 25322-68-3
RL: **USES (Uses)**
(dimethyldistearylammonium chloride blends, softening agents, for detergents)
IT **107-64-2**
RL: **USES (Uses)**
(**polyethylene glycol** blends, softening agents, for detergents)

L36 ANSWER 15 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:408026 HCAPLUS
DOCUMENT NUMBER: 103:8026
TITLE: Detergent **compositions**
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60018593	A2	19850130	JP 1983-125849	198307 11

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PRIORITY APPLN. INFO.: JP 1983-125849 198307 11

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AB The **compns.** contain (A) 5-30 wt.% anionic surfactants mainly contg. salts of α-sulfo fatty acids RCH(SO3M)(CO2M) (R = C10-20 alkyl or alkenyl, M = alkali or alk. earth metal) (I) or salts of α-sulfo fatty acid esters R1CH(SO3M1)(CO2R2) (R1 = C10-20 alkyl or alkenyl, R2 = C1-3 alkyl, M1 = alkali or alk. earth metal) contg. ≥1 wt.% I, (B) 0.1-10 wt.% cationic surfactants R3R4Me2N+X- (R3 = C10-22 alkyl, R4 = Me, C10-22 alkyl, X = halogen), and (C) 5-25 wt.% zeolite. The **compns.** simultaneously afford excellent detergency and flexibility to cotton cloth. Thus,

a α-sulfo-substituted hardened tallow fatty acid Me ester Na salt 1, α-sulfo-substituted hardened palm oil fatty acid di-Na salt 9, Na n-dodecylbenzenesulfonate (II) [25155-30-0] 5, a Na α-olefinsulfonate [C16(av.)] 5, dimethyldistearylammonium chloride [**107-64-2**] 3, zeolite 15, Na silicate 10, Na2CO3 10, soap 2, Na2SO4.7H2O 35, and H2O 5 parts were mixed to prep. a granular detergent. A cotton knit cloth was washed with a 0.14 wt.% 2% soln. of the detergent at 20° at bath ratio 30 for 10 min, rinsed twice for 3 min, and air-dried at 25° and 60% relative humidity. The detergent imparted better flexibility than a std. detergent contg. II 15, Na lauryl sulfate 10, **polyethylene glycol** (av. mol. wt. 6000) 1.5, zeolite 20, Na silicate 10, Na2CO3 10, soap 2, Na2SO4.7H2O 26.5 and H2O 5.

IC ICM C11D001-28
ICS C11D003-12; C11D003-30

CC 46-5 (**Surface Active** Agents and Detergents)

IT Zeolites, uses and miscellaneous
RL: TEM (Technical or engineered material use); **USES (Uses)**
(laundry detergents contg., for flexibility of cotton)

IT Fatty acids, compounds
RL: **USES (Uses)**
(coco, α-sulfo, di-Na salts, laundry detergents contg., for flexibility of cotton cloth)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: TEM (Technical or engineered material use); **USES (Uses)**
(di-C10-22-alkyldimethyl, halides, laundry detergents contg., for flexibility of cotton cloth)

IT Detergents
(laundry, sulfo fatty acid salt-dialkyldimethylammonium halide-zeolite-sulfonate surfactant **compns.**, for flexibility of cotton)

IT Fatty acids, compounds
RL: **USES (Uses)**
(tallow, alkyl esters, sodium salts, laundry detergents contg., for flexibility of cotton cloth)

IT 5896-55-9
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergent **compns.** contg., for flexibility of cotton cloth)

IT 107-64-2 25155-30-0
RL: TEM (Technical or engineered material use); **USES (Uses)**
(laundry detergents contg., for flexibility of cotton cloth)

IT 34503-11-2D, alkyl ethers
RL: **USES (Uses)**
(oligomeric, laundry detergents contg., for flexible cotton cloth)

L36 ANSWER 16 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:168715 HCAPLUS
DOCUMENT NUMBER: 102:168715
TITLE: Additive for textile-washing **composition**
INVENTOR(S): Upadek, Horst; Berg, Markus; Andree, Hans; Seiter, Wolfgang; Jacobs, Jochen
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3329191	A1	19850221	DE 1983-3329191	198308

12
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EP 133562 A2 19850227 EP 1984-109286
198408
04
<--
EP 133562 A3 19880210
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
ES 535089 A1 19850501 ES 1984-535089
198408
10
<--
ZA 8406252 A 19850529 ZA 1984-6252
198408
10
<--
PRIORITY APPLN. INFO.: DE 1983-3329191 A
198308
12
<--
OTHER SOURCE(S): MARPAT 102:168715
AB A fabric softener is used with a silicone oil or a nonvolatile hydrocarbon in the prepn. of additives for laundry detergents. The additives impart softness and antistatic properties to fabrics during laundering. Thus, a slurry contg. dimethyldistearylammonium chloride [**107-64-2**] 40, Na5P3O10 15, Na silicate 15, **ethoxylated** (5 mols) **fatty alc.** 0.5, Aerosil-activated poly(dimethylsiloxane) 2.0, zeolite A 15, water 12.4, and NaOH 0.1 part was converted to granules which were mixed (12.5 parts) with a spray-dried detergent powder 64.95, NaBO3.4H2O 22, perfume 0.25, and protease 0.3 part. This mixt. was used to wash fabrics. The washed fabrics had good softness and antistatic properties after drying on hangers or in a mech. drier.
IC ICM C11D001-82
CC 46-5 (**Surface Active** Agents and Detergents)
IT Hydrocarbon oils
RL: **USES (Uses)**
(detergent additives contg. fabric softeners and)
IT Siloxanes and Silicones, uses and miscellaneous
RL: **USES (Uses)**
(detergent additives contg. fabric softeners and liq.)
IT 107-64-2
RL: **USES (Uses)**
(softening agents, for textiles, detergent additives contg.)

L36 ANSWER 17 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:115555 HCAPLUS
DOCUMENT NUMBER: 102:115555
TITLE: Concentrated textile softening **composition**
INVENTOR(S): Grandmaire, Jean Paul; Jacques, Alain
PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA
SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3415892	A1	19841115	DE 1984-3415892	198404 28

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SE 8402212	A	19841112	SE 1984-2212	198404 19
			<--	
SE 464139	B	19910311		
SE 464139	C	19911114		
ZA 8403208	A	19851224	ZA 1984-3208	198404 30
			<--	
AT 8401464	A	19920115	AT 1984-1464	198405 03
			<--	
AT 395016	B	19920825		
DK 8402238	A	19841112	DK 1984-2238	198405 04
			<--	
DK 164463	B	19920629		
AU 8427747	A1	19841115	AU 1984-27747	198405 07
			<--	
AU 566057	B2	19871008		
CH 664777	A	19880331	CH 1984-2250	198405 08
			<--	
BR 8402167	A	19841218	BR 1984-2167	198405 09
			<--	
NO 8401889	A	19841112	NO 1984-1889	198405 10
			<--	
NO 161690	B	19890605		
NO 161690	C	19890913		
GB 2139658	A1	19841114	GB 1984-11919	198405 10
			<--	
GB 2139658	B2	19870401		
ES 532365	A1	19851216	ES 1984-532365	198405 10
			<--	
CA 1244603	A1	19881115	CA 1984-453993	198405 10
			<--	
BE 899633	A1	19841112	BE 1984-212911	198405 11
			<--	
FR 2545853	A1	19841116	FR 1984-7366	198405 11
			<--	
FR 2545853	B1	19860926		
NL 8401523	A	19841203	NL 1984-1523	198405 11
			<--	
US 4661270	A	19870428	US 1985-728447	

198505
01
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PRIORITY APPLN. INFO.: US 1983-493450 A
198305
11
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OTHER SOURCE(S): MARPAT 102:115555
AB Concd., aq., stable fabric softening **compns.** comprise RR1R2R3N+ X- (R-R3 = aliph. C1-30 radicals, of which ≥2 are C14-30 alkyl) 12-20, an amine salt 1-5, and an electrolyte 0.5-5 wt.%. Thus, 17.6 parts distearyldimethylammonium chloride [**107-64-2**] (75% active) was added to 70 parts water contg. 1 part **polyethylene glycol**, and 3.7 parts ethoxylated tallow alkylamine and 1.3 parts dodecylbenzenesulfonic acid [27176-87-0] were added to give a gel. The gel was cooled, 0.5 part CaCl2.2H2O was added, and the mixt. was cooled to 20° to give a stable product with a viscosity of .apprx.100 cP.
IC D06M013-46; D06M013-44
CC 46-5 (**Surface Active** Agents and Detergents)
ST fabric softener concd stable; electrolyte stable fabric softener **compn**; amine salt fabric softener stable
IT Softening agents
(quaternary ammonium compds., for textiles, stable concd. **compns.** of)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening agents, for textiles, stable concd. **compns.** of)
IT Amines, compounds
RL: **USES (Uses)**
(tallow alkyl, ethoxylated, in manuf. of concd., stable textile softening **compns.**)
IT 10043-52-4, uses and miscellaneous
RL: **USES (Uses)**
(electrolytes, in regulation of viscosity of concd. quaternary ammonium softening agent **compns.**)
IT 57-11-4P, preparation 27176-87-0
RL: **USES (Uses)**
(in manuf. of concd., stable textile fabric softening **compns.**)
IT 107-64-2
RL: **USES (Uses)**
(softening agents, for textiles, concd. stable **compn.** contg)

L36 ANSWER 18 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:440233 HCAPLUS
DOCUMENT NUMBER: 101:40233
TITLE: Fabric softeners
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59047477	A2	19840317	JP 1982-154873	198209 06

<--

JP 62025790 B4 19870604
PRIORITY APPLN. INFO.: JP 1982-154873
198209
06

<--

AB Hygroscopic materials impregnated with **compns.** contg. a cationic compd., RCON[(CH2CH2O)nH](CH2CH2O)mH, where R is C7-23 alkyl or alkenyl, n is 0 or 1-20, and m is 1-20, and a C12-22 fatty acid or its salt have improved storage stability and are useful as softeners for laundered fabrics. Thus, a synthetic nonwoven fabric was impregnated with a **compn.** contg. dimethyldistearylammonium Me sulfate [**3843-16-1**] 75, coconut oil fatty acid amide 5, **polyethylene glycol** nonylphenyl ether 20, and palmitic acid [57-10-3] 10 parts to give a softener with good storage stability. Softness was good in drying together a laundered acrylic jersey and the impregnated material.

IC D06M013-40; D06M013-20; D06M013-34
CC 46-5 (**Surface Active** Agents and Detergents)
IT Fatty acids, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners contg., for improved storage stability)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(bis(hydrogenated tallow alkyl)dimethyl, Me sulfates, fabric softeners, contg. lauric acid monoethanolamide and fatty acids, with improved storage stability)
IT Amides, uses and miscellaneous
RL: **USES (Uses)**
(coco, fabric softeners contg. quaternary ammonium compds., palmitic acid and)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(tetraalkyl, fabric softeners, contg. fatty acid amides and fatty acids, with improved storage stability)
IT 3843-16-1
RL: **USES (Uses)**
(fabric softener, contg. fatty acid amides and palmitic acid, with improved storage stability)
IT 142-78-9
RL: **USES (Uses)**
(fabric softeners contg. quaternary ammonium compds., fatty acids and)
IT 120-40-1
RL: **USES (Uses)**
(fabric softeners contg. quaternary ammonium compds., palmitic acid and)
IT 57-10-3, uses and miscellaneous 57-11-4, uses and miscellaneous 112-85-6 143-07-7, uses and miscellaneous 544-63-8, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners contg., for improved storage stability)
IT 89004-51-3
RL: **USES (Uses)**
(fabric softeners, contg. lauric acid diethanolamide and palmitic acid, with improved storage stability)

L36 ANSWER 19 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:158588 HCAPLUS
DOCUMENT NUMBER: 100:158588
TITLE: Fabric softeners
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58174679	A2	19831013	JP 1982-57779	19820407
			<--	
JP 01052505	B4	19891109		
PRIORITY APPLN. INFO.:			JP 1982-57779	19820407
			<--	

AB Hygroscopic materials impregnated with mixts. contg. a cationic softener, RCON[(CH2CH2O)nH](CH2CH2O)mH, where R is C7-23 alkyl or alkenyl group, n is 0 or 1-20, and m is 1-20, and a fatty acid ester or an ethoxylated alc., ethoxylated alkylphenol, or ethoxylated oil, are useful as fabric softeners. Thus, a polyurethane foam was impregnated with 95:5 (wt. ratio) mixt. of a 80:20 (wt. ratio) **compn.** contg. dimethyldipalmitylammonium Me sulfate [**60804-35-5**] and lauroyldiethanolamide [120-40-1] and **polyethylene glycol** nonylphenyl ether [**9016-45-9**]. Fabric softness and antistatic property were good on rinsing together an acrylic fabric and the impregnated foam.

IC D06M013-34

CC 46-5 (**Surface Active** Agents and Detergents)

IT Coconut oil
RL: **USES (Uses)**
(fatty acid amides of, fabric softeners, contg. cationic compds. and esters)

IT Oils
RL: **USES (Uses)**
(palm, fatty acids of, Me esters, fabric softeners contg.)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softeners, contg. fatty acid amides and esters, for fabrics)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(bis(hydrogenated tallow alkyl)dimethyl, softeners, contg. fatty acid amides and poly(oxyethylene) ethers, for fabrics)

IT 111-60-4 1338-41-6 9002-92-0 9016-45-9 34383-57-8 89636-75-9
RL: **USES (Uses)**
(softeners, contg. cationic compds. and fatty acid amides, for fabrics)

IT 142-58-5
RL: **USES (Uses)**
(softeners, contg. cationic compds. and fatty acid esters, for fabrics)

IT 7545-24-6
RL: **USES (Uses)**
(softeners, contg. cationic compds. and poly(oxyethylene) esters, for fabrics)

IT 93-82-3
RL: **USES (Uses)**
(softeners, contg. cationic compds. and poly(oxyethylene) ethers, for fabrics)

IT 89004-51-3
RL: **USES (Uses)**
(softeners, contg. fatty acid amides and ethylene glycol monostearate, for fabrics)

IT 89004-55-7
RL: **USES (Uses)**
(softeners, contg. fatty acid amides and poly(oxyethylene)

esters, for fabrics)
IT 60804-35-5
RL: **USES (Uses)**
(softeners, contg. fatty acid amides and poly(oxyethylene) ethers, for fabrics)
IT 3843-16-1
RL: **USES (Uses)**
(softeners, contg. fatty acid amides, and sorbitan monostearate, for fabrics)
IT 64674-97-1 66788-64-5
RL: **USES (Uses)**
(softeners, contg. palmityl diethanolamides and poly(oxyethylene) esters, for fabrics)
IT 120-40-1
RL: **USES (Uses)**
(softeners, contg. poly(oxyethylene) ethers and cationic compds., for fabrics)

L36 ANSWER 20 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:87695 HCAPLUS
DOCUMENT NUMBER: 100:87695
TITLE: Concentrated laundry softener
INVENTOR(S): Stuehler, Herbert; May, Adolf; Buecking, Hans Walter; Schreiber, Manfred
PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3218667	A1	19831124	DE 1982-3218667 <--	198205 18
EP 94655	A2	19831123	EP 1983-104774 <--	198305 14
EP 94655	A3	19840104		
EP 94655	B1	19860312		
EP 94655	B2	19900321		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 18573	E	19860315	AT 1983-104774 <--	198305 14
DK 8302186	A	19831119	DK 1983-2186 <--	198305 17
JP 58208468	A2	19831205	JP 1983-85158 <--	198305 17
BR 8302605	A	19840117	BR 1983-2605 <--	198305 17
PRIORITY APPLN. INFO.:			DE 1982-3218667 A	198205 18

<--
EP 1983-104774 A
198305
14
<--

OTHER SOURCE(S): MARPAT 100:87695
AB Concd. aq. laundry softeners with good storage stability and cold-water dispersibility comprise (a) a quaternary ammonium or imidazolinium salt 6-30, (b) a fatty amine polyglycol ether 0.05-35, (c) an oxyalkylenated **fatty alc.** or acid, a poly-C2-3-alkylene glycol or its ether deriv., or a graft copolymer of ethylene oxide and propylene oxide 0.05-35, (d) a C1-3 alc. 3-20, (e) an acid in molar amt. equiv. to b, and (f) water and optional additives to 100%. A typical **compn.** consists of 15% dimethyldistearylammonium chloride [**107-64-2**], 1% ethylene oxide-stearylamine adduct [26635-92-7] (1:25), 1% ethoxylated lanolin acid, 2.5% isopropanol [67-63-0], 3 mL H2SO4, 2 mL 10% MgCl2 soln., and water, perfume and dye to 100%.
IC D06M013-46; D06M013-38; D06M013-18; C11D001-62
CC 46-5 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(bis(tallow alkyl)(hydroxypropyl)methyl, chlorides, softening agents, aq. concns. contg., for textiles)
IT Imidazolium compounds
RL: **USES (Uses)**
(dihydro, softening agents, storage-stable and water-dispersible aq. concns. contg., for textiles)
IT Fatty acids, esters
RL: **USES (Uses)**
(lanolin, hydroxyalkyl esters, softener **compns.** contg., concd. aq., for textiles)
IT 67-63-0, uses and miscellaneous 106-11-6 9003-11-6 16057-43-5 25322-68-3 26635-92-7 26635-93-8 83826-32-8 88774-53-2
RL: **USES (Uses)**
(softener **compns.** contg., concd. aq., for fabrics)
IT 107-64-2
RL: **USES (Uses)**
(softening agents, aq. concns. contg., storage-stable and water-dispersible)

L36 ANSWER 21 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:472618 HCAPLUS
DOCUMENT NUMBER: 99:72618
TITLE: Concentrated premixes of fabric softeners
INVENTOR(S): May, Adolf; Buecking, Hans Walter; Schreiber, Manfred
PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 12 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3150179	A1	19830623	DE 1981-3150179	198112 18
			<--	
US 4476030	A	19841009	US 1982-448305	198212 09
			<--	

EP 82456	A2	19830629	EP 1982-111555	198212 13 <--
EP 82456	A3	19841128		
EP 82456	B1	19861015		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 22919	E	19861115	AT 1982-111555	198212 13 <--
JP 58109681	A2	19830630	JP 1982-220387	198212 17 <--
JP 03025549	B4	19910408		
ZA 8209282	A	19830928	ZA 1982-9282	198212 17 <--
BR 8207359	A	19831018	BR 1982-7359	198212 17 <--
CA 1193403	A1	19850917	CA 1982-417988	198212 17 <--
PRIORITY APPLN. INFO.:			DE 1981-3150179 A	198112 18 <--
			EP 1982-111555 A	198212 13 <--

OTHER SOURCE(S): MARPAT 99:72618

AB Liq. concs. are prepd. by mixing a fabric softener, such as dimethyldistearylammonium chloride (I) [**107-64-2**] or an imidazolium compds., with an ethoxylated amine and with C13-17 paraffins, a polyalkylene glycol, a **fatty alc.**, a fatty acid ester, etc. The **compns.** are stable during storage and handling. Thus, a liq. conc. comprising I 40, C13-17 paraffins 45, and ethoxylated (2 mol) oleylamine 15% had a viscosity of 700 mPas.

IC D06M013-36; C11D003-26

CC 46-5 (**Surface Active** Agents and Detergents)

IT Onium compounds
RL: **USES (Uses)**
(imidazolium, fabric softeners, liq. concs. contg.)

IT 75-21-8D, reaction products with fatty amines 123-95-5 124-30-1D, ethoxylated 143-28-2 1838-19-3D, ethoxylated 9004-81-3 25322-68-3 25322-69-4 27458-93-1
RL: **USES (Uses)**
(fabric softening concs. contg.)

IT 107-64-2
RL: **USES (Uses)**
(softening agents, for textiles, liq. concs. contg.)

L36 ANSWER 22 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:128157 HCAPLUS
DOCUMENT NUMBER: 98:128157
TITLE: Concentrated softening agent **compositions** for textiles
INVENTOR(S): Jacques, A.; Grandmaire, J. P.
PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA

SOURCE: Belg., 14 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 893887	A1	19830120	BE 1982-208632	198207 20
			<--	
ZA 8304209	A	19850130	ZA 1983-4209	198206 15
			<--	
DE 3225687	A1	19831222	DE 1982-3225687	198207 09
			<--	
DE 3225687	C2	19911121		
FR 2528864	A1	19831223	FR 1982-12357	198207 15
			<--	
FR 2528864	B1	19870507		
DK 8302815	A	19831223	DK 1983-2815	198306 17
			<--	
DK 165336	B	19921109		
DK 165336	C	19930329		
SE 8303507	A	19831223	SE 1983-3507	198306 20
			<--	
SE 462050	B	19900430		
SE 462050	C	19900823		
AU 8315961	A1	19840105	AU 1983-15961	198306 20
			<--	
AU 558320	B2	19870129		
NO 8302245	A	19831223	NO 1983-2245	198306 21
			<--	
NO 163629	B	19900319		
NO 163629	C	19900627		
GB 2122662	A1	19840118	GB 1983-16857	198306 21
			<--	
GB 2122662	B2	19860122		
BR 8303280	A	19840207	BR 1983-3280	198306 21
			<--	
ES 523460	A1	19841116	ES 1983-523460	198306 21
			<--	
CA 1208854	A1	19860805	CA 1983-430819	198306

				21
				<--
NL 8302227	A	19840116	NL 1983-2227	
				198306
				22
				<--
CH 655332	A	19860415	CH 1983-3420	
				198306
				22
				<--
ES 530347	A1	19850516	ES 1984-530347	
				198403
				07
				<--
PRIORITY APPLN. INFO.:			US 1982-390411 A	
				198206
				22
				<--

AB Concd., stable softener **compns.** for textiles, useful in rinse cycles, comprise 12-20% cationic softener RR1R2R3N+ X-, where R-R3 are C1-30 aliph. groups with ≥2 groups being C14-30, 1-5% of a nonionic surfactant with HLB 16.5 ± 1, and 0.5-5% of an electrolyte. Thus, 2 parts **polyethylene glycol** nonylphenyl ether [**9016-45-9**] (16 mol ethylene oxide) was dissolved in 75 parts H2O at 70°, 20 parts of 75% dimethyldistearylammonium chloride [**107-64-2**] in aq. iso-PrOH in the form of a melt (55°) slowly added, and the mixt. stirred to give a gel. The gel was cooled to 40°, 0.5 part CaCl2 added, and the gel cooled to .apprx.20° with stirring to give a stable product with viscosity .apprx.100 cP.

IC ICS D06

CC 46-4 (**Surface Active** Agents and Detergents)

ST concd stable softening **compn**; textile softening **compn**

IT Softening agents
(concd., stable **compns.** contg., for textiles)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening agents, stable concd. **compns.** contg., for textiles)

IT Surfactants
(nonionic, concd., stable softening **compns.** contg., for textiles)

IT 107-64-2 9016-45-9 10043-52-4, uses and miscellaneous 25322-68-3
RL: **USES (Uses)**
(concd., stable softening **compns.** contg., for textiles)

L36 ANSWER 23 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:5738 HCAPLUS
DOCUMENT NUMBER: 98:5738
TITLE: Fabric conditioning **compositions**
INVENTOR(S): Cukier, Samuel; Khan, Irshad A.
PATENT ASSIGNEE(S): Domtar, Inc., Can.
SOURCE: Can., 16 pp.
CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1130059	A1	19820824	CA 1979-341576	197912

10
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PRIORITY APPLN. INFO.: CA 1979-341576
197912
10
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AB The title **compns.**, pumpable at room temp. and water-dispersible, contain diluents 15-35, quaternary ammonium salts 50-80, and C18-28 **fatty alc.** and/oracid phosphate esters 5-30%. Thus, a mixt. of water 8, iso-PrOH 17, (C18H37)2NMe2+ Cl- [**107-64-2**] 65, and Epal C20+ (mixt. of .apprx.65% C18-22 alcs. and 35% C20-40 hydrocarbons) 10% was softer and more homogeneous than a similar **compn.** contg. 75% quaternary ammonium compd. A 5% emulsion of this mixt. in water as a softener for terrycloth was as effective as a **compn.** contg. quaternary ammonium compds. 75, iso-PrOH 17, and water 8%, and better than a com. fabric softener.

IC D06M013-46
CC 46-5 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 40
ST quaternary ammonium salt softener; softener fabric **compn**; alc fatty fabric softener; phosphate ester fabric softener
IT Alcohols, uses and miscellaneous
RL: **USES (Uses)**
(fatty, fabric softeners, as pumpable base mixts.)
IT 107-64-2 7664-38-2D, esters with fatty alcs. 57608-56-7
RL: **USES (Uses)**
(fabric softeners, as pumpable base mixts.)

L36 ANSWER 24 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:618479 HCAPLUS
DOCUMENT NUMBER: 97:218479
TITLE: Fabric conditioner for postlaundering use
INVENTOR(S): Blum, Rainer; Ueberschaer, Klaus
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: Ger. (East), 10 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 154712	Z	19820414	DD 1980-222525	198007 10

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PRIORITY APPLN. INFO.: DD 1980-222525
198007
10
<--

AB Alkyl phosphates (optionally contg. sulfurized **fatty alcs.**) or quaternary ammonium compds. are used with acids, fatty diethanolamides, and optionally ethoxylated alcs. in conditioners for laundered fabrics. The **compns.** provide softening, sizing, and antistatic effects. Thus, a finish contained C16-26 fatty diethanolamides 2.5, ethoxylated (d.p. 3) C10-20 alcs. 15, (C18H37)2NMe2+ Cl- [**107-64-2**] 6, defoamer 0.03, perfume 0.9, AcOH 8, and water 67.57%.

IC C11D001-86
CC 46-5 (**Surface Active** Agents and Detergents)
IT Antistatic agents
Softening agents
Quaternary ammonium compounds, uses and miscellaneous

RL: **USES (Uses)**
(in textile conditioners for postwash use)
IT 107-64-2 111-42-2D, amides with fatty acids 18684-11-2
25322-68-3D, monoalkyl ethers, phosphates, salts 83766-78-3
RL: **USES (Uses)**
(in textile conditioners for postwash use)

L36 ANSWER 25 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:599882 HCAPLUS
DOCUMENT NUMBER: 97:199882
TITLE: Disinfecting cleaning promoter for dry cleaning
INVENTOR(S): Hasenclever, Kaspar D.
PATENT ASSIGNEE(S): Chemische Fabrik Kreussler und Co. G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 13 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3111158	A1	19820930	DE 1981-3111158	198103 21
			<--	
DE 3111158	C2	19830303		
FR 2502170	A1	19820924	FR 1982-4638	198203 18
			<--	
FR 2502170	B1	19860502		
GB 2095277	A	19820929	GB 1982-8049	198203 19
			<--	
GB 2095277	B2	19841219		
US 4406809	A	19830927	US 1982-360635	198203 22
			<--	
PRIORITY APPLN. INFO.:			DE 1981-3111158 A	198103 21
			<--	

OTHER SOURCE(S): MARPAT 97:199882
AB Additives for dry-cleaning solvents are prepd. which contain ≥1 quaternary ammonium chloride (disinfectant), a nonionic surfactant, water, and a diammonium salt of HO2C(CH2)nCO2H (n = 2-5) or a triammonium salt of a tricarboxylic acid (esp. citric or tricarballylic) in which the ammonium groups are derived from tertiary amines such as RNMe2 and HOC2H4OCHRCH2N(C2H4OH)2 (R = C8-18 alkyl). The additives give good cleaning and disinfectant activity and inhibit graying caused by dye transfer between colored and white fabrics. Thus, an additive comprising citric acid coco alkyldimethylamine salt (1:3) 15, (C10H21)2NMe2Cl [**7173-51-5**] 10, R2NMe2Cl (R = coco alkyl) 15, ethoxylated (7 mol) C12-14 **fatty alcs.** 15, **ethoxylated** (5 mol) **nonylphenol** 20, and water 25% was used (10 g/L) in Cl2C:CCl2 [127-18-4] during the cleaning of a mixt. of white and blue cotton fabrics. The decrease in whiteness of the white fabrics was 3.2%, compared with 16% when the additive did not contain the citric acid salt. The citric acid salt also improved the bactericidal activity of the additive against Staphylococcus aureus

and pseudomonas aeruginosa.
IC C11D003-26; C11D003-48; D06L001-12
CC 46-5 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(dry-cleaning additives contg., with bactericidal and antigraying activity)
IT **Detergents**
(dry-cleaning, additives for, with bactericidal and antigraying activity)
IT Quaternary ammonium compounds, compounds
RL: **USES (Uses)**
(salts, dry-cleaning additives contg., with bactericidal and antigraying activity)
IT 77-92-9D, salts with tertiary amines 7173-51-5 9016-45-9
26183-52-8 27306-79-2 83701-27-3 83701-29-5 83701-30-8
83701-31-9 83701-32-0 83701-33-1
RL: **USES (Uses)**
(dry-cleaning additives contg., with bactericidal and antigraying activity)
IT 127-18-4, uses and miscellaneous
RL: **USES (Uses)**
(dry-cleaning solvents, additives for, with bactericidal and antigraying activity)

L36 ANSWER 26 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:494452 HCAPLUS
DOCUMENT NUMBER: 97:94452
TITLE: Dry-cleaning **compositions**
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57053600	A2	19820330	JP 1980-128023	198009 17 <--
JP 59010759	B4	19840310		
PRIORITY APPLN. INFO.:			JP 1980-128023	198009 17 <--

AB Dry-cleaning **compns.** contain 5-80% solvents and a **compn.** comprising quaternary ammonium cationic surfactants 15-50, dialkyl sulfosuccinates 3-20, and nonionic surfactants 30-80%. Thus, a cleaning **compn.** contained 40% petroleum solvent and 60% surfactants contg. bis(hydroxyethyl)ethylstearylammonium chloride [**65270-81-7**] 35, Na dioctyl sulfosuccinate (I) [577-11-7] 15, poly(oxyethylene) nonylphenyl ether [**9016-45-9**] 50%. The **compn.** had detergency 88%, soil redeposition power (cotton) 95%, water-holding power 7.5 mL, good antistatic properties, and good softness, compared with 79, 89, 2, good, and good, resp., for **compn.** having linear dodecylbenzenesulfonic acid triethanolamine salt in place of I.
IC C11D007-50; C11D001-28; C11D001-62; C11D001-66
CC 46-5 (**Surface Active** Agents and Detergents)
ST petroleum solvent dry cleaning **compn**; dry cleaning **compn**; surfactant dry cleaning **compn**; sulfosuccinate surfactant dry cleaning **compn**; nonionic

surfactant dry cleaning **compn**

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(dry-cleaning **compns.**, contg. solvents, nonionic surfactants and dialkyl sulfosuccinates)

IT 128-49-4 577-11-7 82692-55-5
RL: **USES (Uses)**
(dry-cleaning **compns.**, contg. cationic and nonionic surfactants and solvents)

IT 120-40-1 9002-92-0 9004-98-2 9016-45-9 9036-19-5
RL: **USES (Uses)**
(dry-cleaning **compns.**, contg. cationic surfactants, dialkyl sulfosuccinates and solvents)

IT 18448-65-2 28228-59-3 65270-81-7 82684-81-9
RL: **USES (Uses)**
(dry-cleaning **compns.**, contg. solvents, dialkyl sulfosuccinates and nonionic surfactants)

L36 ANSWER 27 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:183204 HCAPLUS
DOCUMENT NUMBER: 96:183204
TITLE: Quaternary ammonium derivatives of fatty acid dialkylaminoalkylamides
INVENTOR(S): Drimus, Iosif; Cretu, Steliana; Parausanu, Victor; Ionita, Gheorghe; Stoica, Maria; Andome, Doina; Ponoran, Ileana; Invancenco, Sergiu
PATENT ASSIGNEE(S): Intreprinderea de Sapun "Stela", Rom.
SOURCE: Rom., 9 pp.
CODEN: RUXXA3
DOCUMENT TYPE: Patent
LANGUAGE: Romanian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RO 71045	B	19810831	RO 1976-86663	197607 02

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PRIORITY APPLN. INFO.: RO 1976-86663 A 197607 02

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AB Quaternization of Et2N(CH2)3NHOCR (R = C11-26 alkyl) with monohalo acids, e.g., CH2ClCO2H (I) [79-11-8], in solvents such as iso-PrOH and glycerol 2-12 h at 60-140° gave surfactants, useful as antistatic and softening agents for fabrics. Thus, impure N,N-diethyl-3-oleamidopropylamine [31953-52-3] (contg. 10% PhMe 870, I 208, and iso-PrOH 600 parts were heated 4 h at 80° with strong stirring to give N,N-diethyl-N-carboxymethyl-3-oleamidopropylammonium chloride (II) [**45305-91-7**] (Cl content 7.12% and purity 99.5%). Polyamide textiles were treated with a bath contg. 3 g/L homogeneous **compn.** contg. 584 parts II and 2920 parts 50% aq. **polyethylene glycol** (mol. wt. 1500) to give samples with surface resistivity 2.72 + 1011 Ω and surface-charge d. +3.14 + 10-10 coulombs/cm2.

IC C07C087-68

CC 46-3 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 23, 40

IT Acrylic fibers, uses and miscellaneous
Polyamide fibers, uses and miscellaneous
Polyester fibers, uses and miscellaneous
RL: **USES (Uses)**

(antistatic and softening agents for, fatty acid amidopropyl quaternary ammonium compds. as)
IT Rayon, uses and miscellaneous
RL: **USES (Uses)**
(polyester fiber blends with, softening agents for, fatty acid amidopropyl quaternary ammonium compds. as)
IT 45305-91-7P 72325-51-0P 72325-54-3P
RL: TEM (Technical or engineered material use); PREP (Preparation); **USES (Uses)**
(surfactants, manuf. of, for finishing of textiles)

L36 ANSWER 28 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:70815 HCAPLUS
DOCUMENT NUMBER: 96:70815
TITLE: Improved detergent **composition**
INVENTOR(S): Green, Howard Wallis; Baron von Berg, Michael Guenther
PATENT ASSIGNEE(S): Carr and Day and Martin Ltd., UK
SOURCE: Brit., 3 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1595903	A	19810819	GB 1977-15815	197704 15

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PRIORITY APPLN. INFO.: GB 1977-15815 A 197704 15

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AB A detergent **compn.** for simultaneous cleaning and softening of textiles comprises a nonionic detergent 10-20, quaternary ammonium softening agent 5-15, a tertiary amine oxide 1-5, and an alkali metal phosphate and/or silicate 40-84%. Thus, 2-4 oz powd. detergent **compn.** comprising anhyd. Na metasilicates 40, Na tripolyphosphate 30, **ethoxylated fatty alc.** nonionic detergent 5, anhyd. Na2SO4 filler 7.5, dimethyldistearylammonium chloride [**107-64-2**] 5, trimethylcetylammonium chloride [**112-02-7**] 5, bis(2-hydroxyethyl)tallow amine oxide 5, Ultramarine 2, and lemon perfume 0.5% when added to a 50° cotton wash program gave soft garments which were easy to iron.
IC C11D003-04; C11D003-06; C11D010-02; C11D001-62; C11D001-75; C11D001-835
CC 46-5 (**Surface Active** Agents and Detergents)
IT Alcohols, compounds
RL: **USES (Uses)**
(fatty, ethoxylated, nonionic detergent **compns.** contg., for simultaneous cleaning and softening of textiles)
IT Detergents
(nonionic, **compns.** contg., for simultaneous cleaning and softening of textiles)
IT Amines, oxides
RL: **USES (Uses)**
(tallow alkyl, stabilizers, detergent **compns.** contg., for simultaneous cleaning and softening of textiles)
IT 107-64-2 112-02-7
RL: **USES (Uses)**
(softening agents, detergent **compns.** contg., for simultaneous cleaning and softening of textiles)

L36 ANSWER 29 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:194032 HCAPLUS
DOCUMENT NUMBER: 94:194032
TITLE: Laundry detergent **compositions** having enhanced greasy and oily soil removal performance
INVENTOR(S): Murphy, Alan P.
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: U.S., 24 pp. Cont.-in-part of U.S. Ser. No. 884,466, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4259217	A	19810331	US 1978-919181	197806 26
			<--	
EP 235	A1	19790110	EP 1978-200065	197806 28
			<--	
R: BE, CH, DE, FR, GB, NL, SE				
NL 7815011	A	19790928	NL 1978-15011	197806 28
			<--	
DE 2857157	A1	19800327	DE 1978-2857157	197806 28
			<--	
DE 2857157	C2	19881229		
DE 2857157	C3	19920709		
GB 2040984	A	19800903	GB 1979-22538	197806 28
			<--	
GB 2040984	B2	19821103		
CH 648344	A	19850315	CH 1980-2910	197806 28
			<--	
AT 7804692	A	19861215	AT 1978-4692	197806 28
			<--	
AT 396690	B	19931125		
BR 7804164	A	19790220	BR 1978-4164	197806 29
			<--	
JP 54039412	A2	19790326	JP 1978-79227	197806 29
			<--	
AU 7837596	A1	19800103	AU 1978-37596	197806 29
			<--	
AU 524807	B2	19821007		

CA 1109755	A1	19810929	CA 1978-306474	197806 29 <--
BE 10	T1	19790427	BE 1979-TR10	197904 27 <--
FR 2416944	A1	19790907	FR 1979-11109	197905 02 <--
FR 2416944	B1	19840810		
SE 7906524	A	19790801	SE 1979-6524	197908 01 <--
SE 449372	B	19870427		
SE 449372	C	19870806		

PRIORITY APPLN. INFO.:

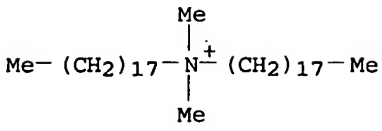
US 1977-811220	A2	197706 29 <--
US 1977-852187	A2	197711 16 <--
US 1978-884466	A2	197803 07 <--
US 1978-919181	A	197806 26 <--
EP 1978-200065	A	197806 28 <--
EP 1979-78200065	A	197901 10 <--

AB Compounding nonionic surfactants with quaternary ammonium compds. and inorg. salts gave title products. Thus, a formulation contg. polyoxyethylene alkyl ether 53.6, cocoalkyltrimethylammonium chloride 6.8, Na2CO3 33.8, and Na silicate 5.8% exhibited 24 and 12 grease-oil and clay removal grade, as compared with 78 and 18 oil and clay removal grade for std. granular detergent, resp.

IT **107-64-2 112-02-7**
RL: **USES (Uses)**
(laundry detergents, contg. **polyethylene glycol** alkyl ethers, with improved oil and soil removing capacity)

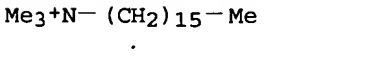
RN 107-64-2 HCAPLUS

CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

RN 112-02-7 HCAPLUS
CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

IC C11D001-38; C11D007-32
INCL 252547000
CC 46-5 (**Surface Active** Agents and Detergents)
ST polyoxyethylene laundry detergent **compn**; cocoalkyltrimethylammonium chloride laundry detergent **compn**
IT Alcohols
RL: **USES (Uses)**
(C12-14-secondary, ethoxylated, laundry detergents, contg. quaternary ammonium compds., with improved oil and soil removing capacity)
IT 497-19-8, uses and miscellaneous 1344-09-8 7757-82-6, uses and miscellaneous 7758-29-4
RL: **USES (Uses)**
(laundry detergents, contg. polyethylene glycol alkyl ether and quaternary ammonium compds.)
IT **107-64-2 112-02-7**
RL: **USES (Uses)**
(laundry detergents, contg. **polyethylene glycol** alkyl ethers, with improved oil and soil removing capacity)
IT 98-11-3D, alkyl derivs., sodium salts
RL: **USES (Uses)**
(laundry detergents, contg. quaternary ammonium compds. and sodium sulfate)
IT 25322-68-3D, alkyl ethers
RL: **USES (Uses)**
(laundry detergents, contg. quaternary ammonium compds., with improved oil and soil removing capacity)
IT 57-13-6, uses and miscellaneous
RL: **USES (Uses)**
(polyethylene glycol alkyl ether contg. quaternary ammonium compds. and, as laundry detergents)

L36 ANSWER 30 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:105297 HCAPLUS
DOCUMENT NUMBER: 94:105297
TITLE: Post-washing softeners
INVENTOR(S): Weber, Rudolf
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2925859	A1	19810122	DE 1979-2925859 <--	19790627
PRIORITY APPLN. INFO.:			DE 1979-2925859 A <--	19790627

AB A quaternary ammonium group-contg. polygalactomannan (guar) ether (e.g., Gendriv 162) is used with a quaternary ammonium salt and, in some cases, a fatty acid-hydroxyalkylpolyamine condensate to prep. liq. **compns.** which are added to washed fabrics during rinsing to impart softness to the fabrics without decreasing their capacity to absorb moisture. Thus, a softening **compn.** contained dimethyldistearylammonium chloride [**107-64-2**] 2, 1:1 (molar) tallow-HO(CH2CH2NH)2H condensate 1.5, Gendriv 162, 3.5, ethoxylated (12 mols) cetyl stearyl alc. 0.4, **polyethylene glycol** (mol. wt. 400) 0.4, 40% formalin 0.1, perfume 0.2, and water 91.9%.
IC C11D001-62; C11D001-645
CC 46-4 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening agents, for textiles, contg. cationic guar derivs. for moisture absorption)
IT 9000-30-0D, cationic derivs. 65997-71-9
RL: **USES (Uses)**
(fabric softeners contg., for improved moisture absorption)
IT 107-64-2 111-41-1D, amides with fatty acids
RL: **USES (Uses)**
(softening agents, for textiles, contg. cationic guar derivs. for moisture absorption)

L36 ANSWER 31 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:49147 HCAPLUS
DOCUMENT NUMBER: 94:49147
TITLE: Detergent for textiles
INVENTOR(S): Andree, Hans
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2918364	A1	19801120	DE 1979-2918364 <--	19790507
EP 18630	A1	19801112	EP 1980-102333 <--	19800430
R: AT, BE, CH, DE, FR, IT, NL				
BR 8002782	A	19801216	BR 1980-2782	

198005
06
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PRIORITY APPLN. INFO.: DE 1979-2918364 A
197905
07
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AB Detergents contg. **ethoxylated alcs.**, **fatty** ethanolamides, and fabric softeners (quaternary ammonium compds.) are useful for the simultaneous washing and conditioning of textiles. A suitable detergent contains ethoxylated tallow alc. (d.p. 14) 7, coconut fatty acid ethanolamide (Comperlan 100) 3, (C18H37)NMe2+ Cl- [**107-64-2**] (Arosurf TA 100) 5, and builders-additives-H2O 85%.

IC C11D001-835

CC 46-5 (**Surface Active** Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(fabric softeners, in laundry detergents)

IT Amides, uses and miscellaneous
RL: **USES (Uses)**
(coco, hydroxyethyl, in laundry detergents contg. fabric softeners)

IT **Detergents**
(laundry, contg. fabric softeners)

IT 107-64-2 76326-30-2
RL: **USES (Uses)**
(fabric softeners, in laundry detergents)

IT 25322-68-3D, fatty alkyl ethers
RL: **USES (Uses)**
(in fabric-softening laundry detergents)

L36 ANSWER 32 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:588129 HCAPLUS
DOCUMENT NUMBER: 93:188129
TITLE: Concentrated softening **compositions** for textiles
INVENTOR(S): Koehler, Siegfried; Gogolin, Heinz
PATENT ASSIGNEE(S): Dalli-Werke Maeurer und Wirtz, Fed. Rep. Ger.
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2905881	A1	19800828	DE 1979-2905881	197902 16

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PRIORITY APPLN. INFO.: DE 1979-2905881 A
197902
16
<--

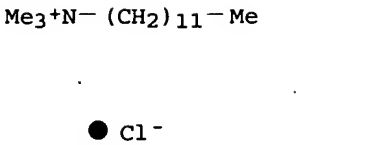
AB The concd. softening **compns.** contain a cationic softening agent, such as dimethyldistearylammonium chloride (I) [**107-64-2**], water, MgCl2, and **ethoxylated fatty alcs.**, have good gelling resistance during storage, and are useful for addn. to laundered textiles during rinsing. Thus, a softening **compn.** contained I 12, an imidazolinium salt 5, MgCl2.6H2O 0.4, ethoxylated (6 mol) C12-15 **fatty alcs.** 0.5, and water .apprx.82%. The **compn.** had viscosity (mPa-s) 53 initially and 132 after 4 wk

at 40°.
IC C11D001-38
CC 46-4 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening agents, for textiles, concd. aq. solns. of)
IT 107-64-2
RL: **USES (Uses)**
(softeners, for textiles, solubilizers for concd. solns. of)
IT 7786-30-3, uses and miscellaneous
RL: **USES (Uses)**
(solubilizers, for quaternary ammonium compds. as textile softeners)
IT 25322-68-3D, monoalkyl ethers
RL: **USES (Uses)**
(textile softener solns. contg. quaternary ammonium compds. and, concd.)

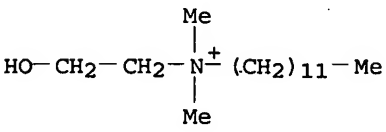
L36 ANSWER 33 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:182882 HCAPLUS
DOCUMENT NUMBER: 92:182882
TITLE: Liquid detergents
INVENTOR(S): Daibe, Kazuo; Tokina, Nobuo; Kashiwa, Ichiro
PATENT ASSIGNEE(S): Lion Fat and Oil Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54159416	A2	19791217	JP 1978-68534	197806 07
			<--	
JP 63037158	B4	19880722		
US 4235759	A	19801125	US 1979-45134	197906 04
			<--	
PRIORITY APPLN. INFO.:			JP 1978-68534 A	197806 07
			<--	

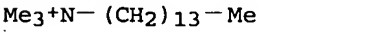
AB Anionic **polyethylene glycol** alkyl ether sulfate Na salts and cationic quaternary ammonium compds. were used to prepd. detergents which were mild to hands. Thus, a detergent comprised a **polyethylene glycol** C12-13 alkyl ether sulfate Na salt 25, octyltrimethylammonium chloride [**10108-86-8**] 5, EtOH 5, and water 65%.
IT **112-00-5 2271-92-3 4574-04-3 10108-86-8**
RL: **USES (Uses)**
(detergents, contg. **polyethylene glycol** alkyl ether sulfate sodium salt)
RN 112-00-5 HCAPLUS
CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



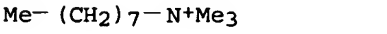
RN 2271-92-3 HCAPLUS
CN 1-Dodecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 4574-04-3 HCAPLUS
CN 1-Tetradecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 10108-86-8 HCAPLUS
CN 1-Octanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



IC C11D001-65
CC 46-5 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(detergents, contg. polyethylene glycol alkyl ether sulfate sodium salt)
IT **Detergents**
(polyethylene glycol alkyl ether sulfate sodium salts, contg. quaternary ammonium compds.)
IT **112-00-5** 139-07-1 **2271-92-3** **4574-04-3** **10108-86-8**
RL: **USES (Uses)**
(detergents, contg. **polyethylene glycol** alkyl ether sulfate sodium salt)
IT 25322-68-3D, alkyl ethers, sulfates, salts
RL: **USES (Uses)**

(detergents, contg. quaternary ammonium compds.)

L36 ANSWER 34 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:445379 HCAPLUS
DOCUMENT NUMBER: 89:45379
TITLE: Detergents
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53041312	A2	19780414	JP 1977-97423 <--	197708 13
GB 1580456	A	19801203	GB 1976-33787 <--	197608 13
PRIORITY APPLN. INFO.:			GB 1976-33787 A <--	197608 13

AB Detergents were prepd. which contained orthophosphates and pyrophosphates as builders and quaternary ammonium compds. as antistatic agents. Thus, a detergent comprised Na alkylbenzenesulfonate (C10-14) 16, C14-22 fatty acids 2.36, 11:1 (molar) **ethoxylated fatty alcs.** 1.6, Na orthophosphate 10, Na pyrophosphate 6, NaCl 6, Na perborate tetrahydrate 30, CM-cellulose 1, Na2SO4 18.43, an enzyme 0.24, a whitening agent 0.13, a perfume 0.18, water 4.5, 25:1 (molar) ethoxylated alcs. 1, and dimethyldistearylammonium chloride [**107-64-2**] 1%.
IC C11D010-02
CC 46-5 (**Surface Active** Agents and Detergents)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(antistatic agents, detergents contg.)
IT **Detergents**
(builders for, orthophosphate and pyrophosphate as)
IT 107-64-2
RL: **USES (Uses)**
(antistatic agents, detergents contg.)
IT 7722-88-5
RL: **USES (Uses)**
(builders, contg. sodium orthophosphate, for detergents)
IT 7632-05-5
RL: **USES (Uses)**
(builders, contg. sodium pyrophosphate, for detergents)

L36 ANSWER 35 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:569566 HCAPLUS
DOCUMENT NUMBER: 87:169566
TITLE: Liquid detergent **composition**
INVENTOR(S): Meschkat, Ursula; Bimczok, Rudolf
PATENT ASSIGNEE(S): Exquisit-Kosmetik G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 5 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2605502	A1	19770818	DE 1976-2605502	197602 12
			<--	
SE 7604127	A	19770103	SE 1976-4127	197604 08
			<--	
SE 424647	B	19820802		
SE 424647	C	19821111		
NO 7601523	A	19770104	NO 1976-1523	197605 04
			<--	
NO 146436	B	19820621		
NO 146436	C	19820929		
DK 7602189	A	19770103	DK 1976-2189	197605 18
			<--	
DK 144798	B	19820607		
DK 144798	C	19821025		
FI 7601456	A	19770103	FI 1976-1456	197605 24
			<--	
FI 62681	B	19821029		
FI 62681	C	19830210		
ES 449540	A1	19771116	ES 1976-449540	197607 02
			<--	

PRIORITY APPLN. INFO.:

DE 1975-2529444	A	197507 02
<--		
DE 1976-2605420	A	197602 12
<--		
DE 1976-2605502	A	197602 12
<--		
DE 1976-2609807	A	197603 10
<--		

AB The liq. detergent contains an ethoxylated fatty amide (I) (Dionil W 100 [64334-22-1]) and diethyldimyristylammonium chloride (II) [**51277-92-0**] and is useful for the cleaning and softening of fine textiles. Thus, a detergent contained I 26, **polyethylene glycol** dioleate 8, II 2, 40% HCHO soln. 0.3, perfume 0.7, 0.1% dye soln. 0.5, and water 62.5%.

IC C11D001-835

CC 46-5 (**Surface Active** Agents and Detergents)

IT 25322-68-3D, fatty amide deriv. 64334-22-1
RL: **USES (Uses)**
(liq. detergents contg. softeners and, for fine fabrics)

IT 51277-92-0

RL: **USES (Uses)**
(softening agents, liq. detergents contg., for fine fabrics)

L36 ANSWER 36 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:454898 HCAPLUS
DOCUMENT NUMBER: 87:54898
TITLE: Liquid detergent **compositions**
INVENTOR(S): Nishimura, Masaaki; Arai, Haruhiko; Kadowaki, Susumu
PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

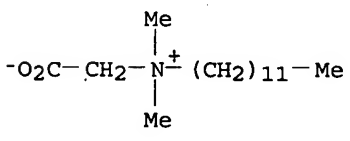
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52038508	A2	19770325	JP 1975-114576	197509 22
			<--	
JP 54013445	B4	19790531		

PRIORITY APPLN. INFO.: JP 1975-114576 A 197509 22
<--

AB Liq. detergent **compns.** contg. **polyethylene glycol** alkyl ether sulfate (C8-18 alkyl, d.p. of ethylene oxide 1-5) 5-30, alkylbetaines of C10-18 and C1-3 alkyls or fatty acid ethanolamide (R4CONR5CH2CH2OH, where R4 = C8-18 alkyl, R5 = H or hydroxyethyl) 0.1-10, and nonionic surfactants R6O(CH2CH2O)pH, (R6 = C8-18 alkyl, p = 1-4), R7C6H4O(CH2CH2O)nH, (R7 = C6-10 alkyl, p = n), and(or) R8CO2(CH2CH2O)mH (R8 = R6, m = p) 0.3-6% are mild to the skin. Thus, a **compn.** comprising **polyethylene glycol** alkyl ether sulfate Na salt 20, **polyethylene glycol** alkyl ether (av. C12 alkyl, av. d.p. of ethylene oxide 2) 1.5, dimethyllaurylbetaine [**683-10-3**] 2, EtOH 5, and water 71.5% cleaned grease-soiled dishes well.

IT **683-10-3**
RL: **USES (Uses)**
(detergents, contg. nonionic surfactants and **polyethylene glycol** alkyl ether sulfates, skin-compatible)

RN 683-10-3 HCAPLUS
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



IC C11D001-94
CC 46-3 (**Surface Active** Agents and Detergents)
IT Detergents
(betaine-nonionic surfactant-polyethylene glycol alkyl ether sulfate **compns.**, skin-compatible)
IT 120-40-1 142-78-9 **683-10-3**
RL: **USES (Uses)**
(detergents, contg. nonionic surfactants and **polyethylene glycol** alkyl ether sulfates, skin-compatible)

L36 ANSWER 37 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:173453 HCAPLUS
DOCUMENT NUMBER: 86:173453
TITLE: Carrier granule for an organosilane
INVENTOR(S): Leikhim, John W.; Maguire, Edward J., Jr.; Heckert, David C.; Watt, David M., Jr.
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: U.S., 17 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4013573	A	19770322	US 1975-570536	197504 22 <--

PRIORITY APPLN. INFO.: US 1975-570536 A 197504 22 <--

AB To prevent premature polymn. of an organosilane such as (EtO)3SiCH2(C12H25)N+Me2 Cl- (I) [**62077-90-1**] in detergent **compns.**, granules of an inert material are coated with the organosilane and a water-sol. or water-dispersible, solid, nonionic material, and the granules are added to the detergent **compn**. The organosilanes are used as components of dishwashing detergents, toilet bowl cleaners, etc., and impart soil release properties to the washed surfaces. Thus, sucrose granules were sprayed with a mixt. of 80% **polyethylene glycol** (mol. wt. 4000) and 20% I to prep. granules contg. 12% I, which were used (8.5%) in detergents for automatic dishwashers.
IC C11D001-00
INCL 252089000R
CC 46-6 (**Surface Active** Agents and Detergents)
IT Siloxanes and Silicones, uses and miscellaneous
RL: **USES (Uses)**
(soil release agents, in detergents, stabilization of)
IT 62077-90-1 62573-02-8 62573-03-9 62573-04-0 62573-05-1
62573-06-2 62573-07-3 62573-08-4 62573-09-5
RL: **USES (Uses)**
(soil release agents, in detergents, stabilization of)

L36 ANSWER 38 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:108365 HCAPLUS
DOCUMENT NUMBER: 86:108365
TITLE: Laundering adjunct
INVENTOR(S): Jones, J. Paul
PATENT ASSIGNEE(S): Procter and Gamble Co., USA
SOURCE: U.S., 17 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4005029	A	19770125	US 1976-665475	197603

				10
				<--
CA 993755	A1	19760727	CA 1973-164705	
				197302
				27
				<--
PRIORITY APPLN. INFO.:			US 1972-230518	A2
				197202
				29
				<--
			US 1973-384529	A1
				197308
				01
				<--

AB Mixts. of a peroxide, such as K monopersulfate (I) [25482-78-4] or diperazelaic acid [1941-79-3], an activator (e.g., a ketone), a zwitterionic surfactant, and buffer compd. were useful for inhibiting dye transfer during laundering, i.e., the dyes suspended or solubilized in the laundering soln. were oxidized. Thus, a mixt. of I 5.76, p-nitroacetophenone [100-19-6] 1.69, hexadecyldimethylammonioacetate [**693-33-4**] 28.1, **ethoxylated** (6 mol) **fatty alcs.** 0.34, Na alkylbenzenesulfonic acid 4.25, Na tallow alkyl sulfate 5.19, Na5P3O10 27.8, and additives and water 26.87% was useful as a dye transfer-inhibiting laundering detergent.

IC C11D007-38
INCL 252099000
CC 46-5 (**Surface Active** Agents and Detergents)
IT **Detergents**
(for textiles, contg. oxidizing agents to inhibit dye transfer)
IT 1941-79-3 25482-78-4 37222-66-5
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., as dye transfer inhibitors in laundering)
IT 693-33-4 2281-11-0 32718-38-0
RL: **USES (Uses)**
(dye transfer-inhibiting laundry detergents contg. peroxides and)
IT 100-19-6 1009-61-6 19437-26-4 62077-86-5 62077-88-7
RL: **USES (Uses)**
(dye transfer-inhibiting laundry detergents contg. peroxides and, as activators)

L36 ANSWER 39 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:6585 HCAPLUS
DOCUMENT NUMBER: 86:6585
TITLE: Softener for textile material
INVENTOR(S): Minegishi, Yutaka; Arai, Haruhiko
PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2543637	A1	19760923	DE 1975-2543637	
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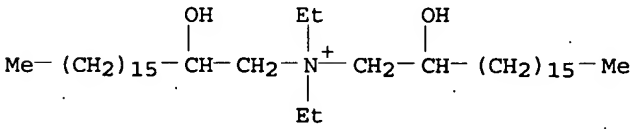
DE 2543637	B2	19800710		
DE 2543637	C3	19810507		
JP 51105500	A2	19760918	JP 1975-29768	
				197503
				12

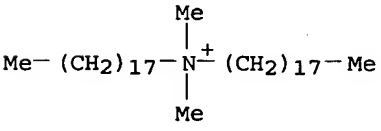
				<--
US 4038196	A	19770726	US 1975-616621	197509 25
				<--
GB 1484526	A	19770901	GB 1975-39344	197509 25
				<--
PRIORITY APPLN. INFO.:			JP 1975-29768 A	197503 12
				<--

AB Nongelling, storage-stable, aq. softener dispersions having good recovery from freezing comprise a 3-20% fatty alkyl ammonium chloride deriv. (distearyldimethylammonium chloride [**107-64-2**]), **polyethylene glycol** fatty alkyl ether, urea [57-13-6], and NH4Cl [12125-02-9], NH4OAc [631-61-8], or a salt of an amine (1:0.06-0.9:0.1-1.5:0.1020-0.27).

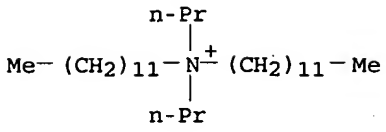
IT **60767-86-4**
RL: **USES (Uses)**
(softening agents, contg. **polyethylene glycol** fatty alkyl ether, urea, and ammonium salts storage-stable, for textiles)
RN 60767-86-4 HCAPLUS
CN 1-Octadecanaminium, N,N-diethyl-2-hydroxy-N-(2-hydroxyoctadecyl)-, chloride (9CI) (CA INDEX NAME)



IT **107-64-2 60767-87-5 60767-90-0 61016-57-7**
RL: **USES (Uses)**
(softening agents, contg. **polyethylene glycol** fatty alkyl ether, urea, and ammonium salts, storage-stable, for textiles)
RN 107-64-2 HCAPLUS
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

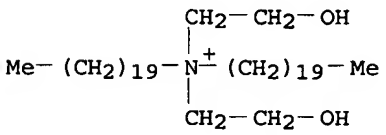


RN 60767-87-5 HCAPLUS
CN 1-Dodecanaminium, N-dodecyl-N,N-dipropyl-, bromide (9CI) (CA INDEX NAME)



● Br^-

RN 60767-90-0 HCAPLUS
CN 1-Eicosanaminium, N-eicosyl-N,N-bis(2-hydroxyethyl)-, chloride (9CI) (CA INDEX NAME)

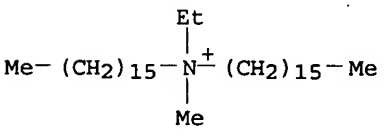


● Cl^-

RN 61016-57-7 HCAPLUS
CN 1-Hexadecanaminium, N-ethyl-N-hexadecyl-N-methyl-, ethyl sulfate (9CI) (CA INDEX NAME)

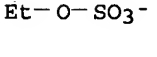
CM 1

CRN 60767-88-6
CMF C35 H74 N



CM 2

CRN 48028-76-8
CMF C2 H5 O4 S



IC D06M013-46
CC 46-4 (**Surface Active** Agents and Detergents)
IT Textiles
(softening **compns.** for, storage-stable)
IT 637-39-8
RL: **USES (Uses)**
(softening agent concn., storage-stable, for textiles)
IT 57-13-6, uses and miscellaneous 631-61-8 9002-92-0 9004-98-2 12125-02-9, uses and miscellaneous 31889-13-1
RL: **USES (Uses)**

(softening agent contg., storage-stable, for textiles)
IT **60767-86-4**
RL: **USES (Uses)**
(softening agents, contg. **polyethylene glycol** fatty alkyl ether, urea, and ammonium salts storage-stable, for textiles)
IT **107-64-2 60767-87-5 60767-90-0 61016-57-7**
RL: **USES (Uses)**
(softening agents, contg. **polyethylene glycol** fatty alkyl ether, urea, and ammonium salts, storage-stable, for textiles)

L36 ANSWER 40 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:526261 HCAPLUS
DOCUMENT NUMBER: 85:126261
TITLE: Laundry softening **composition** with disinfecting properties
INVENTOR(S): Wallhaeuser, Karl H.; Mueller, Heinz; May, Adolf; Ruecking, Hans W.
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2503026	A1	19760729	DE 1975-2503026 <--	197501 25
NL 7600535	A	19760727	NL 1976-535 <--	197601 20
DK 7600275	A	19760726	DK 1976-275 <--	197601 23
GB 1538094	A	19790117	GB 1976-2673 <--	197601 23
BE 837902	A1	19760726	BE 1976-163795 <--	197601 26
FR 2298600	A1	19760820	FR 1976-1963 <--	197601 26
FR 2298600	B1	19790629		
PRIORITY APPLN. INFO.:			DE 1975-2503026 A <--	197501 25

AB Quaternary ammonium compds. with softening and disinfecting properties were used with a **fatty alc.** and iso-PrOH to prep. stable aq. **compns.** for application to textiles during rinsing. Thus, a softening **compn.** contained dimethyldistearylammonium chloride [**107-64-2**] 4, 1-(tallow alkanamidoethyl)-2-(tallow alkyl)-3-methylimidazolinium

methylsulfate 2, di(C8-10 alkyl)dimethylammonium chloride 4, C12-14 alc. 2, ethoxylated (12 moles) oleyl alc. 0.5, iso-PrOH 1.1, and water 86.4%.

IC C11D003-48

CC 46-4 (**Surface Active** Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(softening and disinfecting **compns.** contg., for textiles)

IT 107-64-2
RL: **USES (Uses)**
(softening and disinfecting agents contg., for textiles)

L36 ANSWER 41 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:423055 HCAPLUS
DOCUMENT NUMBER: 85:23055
TITLE: Washing **compositions** with a softening and antistatic effect
PATENT ASSIGNEE(S): Berol Kemi AB, Swed.
SOURCE: Neth. Appl., 26 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7505916	A	19751124	NL 1975-5916	197505 20 <--
SE 7406698	A	19751121	SE 1974-6698	197405 20 <--
SE 415031	B	19800901		
SE 415031	C	19801218		
US 4058489	A	19771115	US 1975-577535	197505 15 <--
BE 829162	A1	19751117	BE 1975-156425	197505 16 <--
DK 7502175	A	19751121	DK 1975-2175	197505 16 <--
DK 149961	B	19861103		
FI 7501454	A	19751121	FI 1975-1454	197505 16 <--
FI 59610	B	19810529		
FI 59610	C	19810910		
NO 7501749	A	19751121	NO 1975-1749	197505 16 <--
NO 144268	B	19810421		
NO 144268	C	19810729		
FR 2272167	B1	19780203	FR 1975-15543	197505

16
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GB 1500966 A 19780215 GB 1975-20939
197505
16
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CH 617718 A 19800613 CH 1975-6330
197505
16
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AT 7503780 A 19830315 AT 1975-3780
197505
16
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AT 372699 B 19831110
CA 1032051 A1 19780530 CA 1975-227287
197505
20
<--
PRIORITY APPLN. INFO.: SE 1974-6698 A
197405
20
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AB Laundry detergents with softening and/or antistatic effects contained 30-90% nonionic or amphoteric surfactants and 10-70% of ≥1 anionic and ≥1 cationic surfactant. Thus, a laundry detergent contained ethoxylated (8 moles) C14-20 **fatty alcs.** 10, sulfate of ethoxylated (3 moles) C16-18 **fatty alcs.** 3, [C10H21OCH2CH(OH)CH2]2N+Me2Cl- [**57945-70-7**] 4.2, Na5P3O10 30, and Na perborate and additives 52.8%.

IC C11D001-86

CC 46-5 (**Surface Active** Agents and Detergents)

IT 57945-70-7
RL: **USES (Uses)**
(antistatic and softening agents, for textiles, detergents contg.)

L36 ANSWER 42 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:61709 HCAPLUS
DOCUMENT NUMBER: 84:61709
TITLE: Washing **composition** with textile softening and antistatic action
INVENTOR(S): Hellsten, Karl M. E.
PATENT ASSIGNEE(S): Berol Kemi AB, Swed.
SOURCE: Ger. Offen., 31 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2521799	A1	19751127	DE 1975-2521799	197505 16
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DE 2521799	C3	19790920		
DE 2521799	B2	19790201		
SE 7406698	A	19751121	SE 1974-6698	197405 20
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SE 415031	B	19800901		

SE 415031	C	19801218		
US 4058489	A	19771115	US 1975-577535	197505 15 <--
BE 829162	A1	19751117	BE 1975-156425	197505 16 <--
DK 7502175	A	19751121	DK 1975-2175	197505 16 <--
DK 149961	B	19861103		
FI 7501454	A	19751121	FI 1975-1454	197505 16 <--
FI 59610	B	19810529		
FI 59610	C	19810910		
NO 7501749	A	19751121	NO 1975-1749	197505 16 <--
NO 144268	B	19810421		
NO 144268	C	19810729		
FR 2272167	B1	19780203	FR 1975-15543	197505 16 <--
GB 1500966	A	19780215	GB 1975-20939	197505 16 <--
CH 617718	A	19800613	CH 1975-6330	197505 16 <--
AT 7503780	A	19830315	AT 1975-3780	197505 16 <--
AT 372699	B	19831110		
CA 1032051	A1	19780530	CA 1975-227287	197505 20 <--
PRIORITY APPLN. INFO.:			SE 1974-6698 A	197405 20 <--

AB The washing **compn.** contained 30-90% nonionic and/or amphoteric surfactant and 10-70% anionic and cationic surfactants and contained 0.7-0.95 equiv. anionic surfactant/equiv. cationic surfactant. Thus, a washing **compn.** contg. ethoxylated (8 moles) C14-20 **fatty alcs.** 10, sulfate ester of ethoxylate (2 moles) C16-18 alcs. 3, [C10H21OCH2CH(OH)CH2]2N+Me2Cl- [**57945-70-7**] 4.2, and Na5P3O10 30 parts gave good cleaning and softening effects during laundering of textiles.

IC C11D

CC 46-5 (**Surface Active** Agents and Detergents)

IT 57945-70-7
RL: **USES (Uses)**
(antistatic agents and textile softeners, in detergents)

L36 ANSWER 43 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:566199 HCAPLUS
DOCUMENT NUMBER: 83:166199
TITLE: Dry-cleaning detergent **compositions**
INVENTOR(S): Kojima, Kazumi; Oku, Shiro; Danjo, Yasuhiko; Yamazaki, Shingo
PATENT ASSIGNEE(S): Nippon Oils & Fats Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50076107	A2	19750621	JP 1973-116113	197310 16

PRIORITY APPLN. INFO.: JP 1973-116113 A 197310 16

AB A 10-70:90-30 mixt. of R1(CONH)nZkN+R2R3R4 X- (R1 = C11-21 alkyl, alkenyl, R2, R3 = C1-3 alkyl, R4 = C1-3 alkyl, PhCH2, HOCH2CH2, HOCH2CH2CH2, n, k = 0, 1, Z = C1-5 alkylene, X = Cl, Br) and nonionic surfactant(s) chosen from ethylene oxide adduct of alkylphenol, higher alc., higher fatty acid, or alkylamine, polyol fatty acid ester, and fatty acid diethanolamide was mixed with dry-cleaning solvent and coupler to give dry-cleaning detergent **compns.** For example, 0.5 l. soln. from 45% methanolic stearyltrimethylammonium chloride [**112-03-8**] 14, stearylamine-ethylene oxide adduct [26635-92-7] 20, sorbitan monostearate [1338-41-6] 10, Bu Cellosolve 5, and tetrachloroethylene 45 parts was dild. with 100 l. tetrachloroethylene to give dry-cleaning detergent **compn.** imparting better antistatic properties to polyester, polyamide, acrylic, and wool fabrics than a control tetrachloroethylene **compn.** contg. Na dodecylbenzenesulfonate, **nonylphenol**-ethylene oxide adduct, and Na dioctyl sulfosuccinate.
IC C11D
CC 46-5 (**Surface Active** Agents and Detergents)
IT Antistatic agents
(surfactants, for dry-cleaning **compns.**)
IT 112-03-8 1338-41-6 26635-92-7
RL: **USES (Uses)**
(dry-cleaning detergents contg., antistatic)

L36 ANSWER 44 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:566190 HCAPLUS
DOCUMENT NUMBER: 83:166190
TITLE: Liquid detergent **compositions** for tableware and vegetables
INVENTOR(S): Asano, Yasutaka; Tachibana, Kyozaburo; Ito, Yukio
PATENT ASSIGNEE(S): Kao Soap Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 50076106	A2	19750621	JP 1973-126029	197311 09

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PRIORITY APPLN. INFO.: JP 1973-126029 A 197311 09

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AB Liq. detergent **compns.** for tableware and vegetables contained oxyethylene group-contg. nonionic surfactant 5-40, sulfo or sulfate group-contg. anionic surfactant 1-20, and ≥2 of dimethylalkylamine oxide, dimethylalkylbetaine, fatty acid diethanolamide 1-20%. For example, an aq. soln. contg. **polyethylene glycol** dodecyl ether [9002-92-0] 20, Na α-olefinsulfonate 5, dimethyllaurylamine oxide (I) [1643-20-5] 5, dimethyllaurylbetaine (II) [**683-10-3**] 5, and EtOH 10% was mild to skin and had better foaming and detergency than that not contg. I or II.

IC C11D

CC 46-3 (**Surface Active** Agents and Detergents)

IT Sulfonic acids, uses and miscellaneous
RL: **USES (Uses)**
(alkene, liq. detergents contg., for dishwashing and vegetables)

IT 683-10-3 1643-20-5 9002-92-0
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., liq., for dishwashing and vegetables)

L36 ANSWER 45 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:533853 HCAPLUS
DOCUMENT NUMBER: 83:133853
TITLE: Surface-active betaines
INVENTOR(S): Willmund, Wolf D.; Andree, Hans; Sung, Eric
PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2364440	A1	19750703	DE 1973-2364440	197312 24

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PRIORITY APPLN. INFO.: DE 1973-2364440 A 197312 24

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AB The compds. R2R1N+(CH2)3SO3-, R2R1N+CH2CH(OH)CH2SO3-, R2R1N+CH2CO2-, and R2R1N+CH2CH(OH)CH2OSO3-, with R = CH2CH(OH)CH2OH and R1 = C12-18 alkyl, were prepd. and were used in the manuf. of detergents contg. little or no phosphate. Thus, 0.5 mole hexadecylamine [143-27-1] in EtOH was treated slowly at reflux with 1 mole glycidol [556-52-5] and treated slowly at 60-70° with 0.5 mole propane sultone [1120-71-4] to prep. H(CH2)16[HOCH2CH2(OH)CH2]2N+(CH2)3SO3- [**56417-88-0**]. A detergent comprised H(CH2)16[HOCH2CH2(OH)CH2]2N+CH2CO2- [**56417-72-2**] 10, **ethoxylated fatty alcs.** 8, triphosphate 10, Na silicate 15, CM-cellulose 2, EDTA 0.3, whitener 0.2, antifoaming agent 0.2, and Na2SO4 and water 54.3%.

IC C07C; C11D

CC 46-3 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 23
IT **Detergents**
(ammonia compds. for phosphate-poor)
IT Quaternary ammonium compounds, uses and miscellaneous
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., phosphate-poor)
IT 56417-72-2 56417-84-6 56417-85-7 56417-86-8 56417-87-9
56417-88-0
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., phosphate-poor)

L36 ANSWER 46 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:445134 HCAPLUS
DOCUMENT NUMBER: 83:45134
TITLE: Comparative study of the action of surfactants on some protein materials and their titration potential on human skin
AUTHOR(S): Pelejero, C. M.; Balaguer, F.; Garcia Dominguez; Parra, J. L.
CORPORATE SOURCE: Res. Dev. Lab., Antonio Puig, S. A., Spain
SOURCE: Cosmetics and Perfumery (**1975**), 90(3), 77-80, 82, 84, 87
CODEN: CSPEAX; ISSN: 0090-6581
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The amts. and amino acid **compns.** were detd. for proteins extd. from zein and wool by 0.3% aq. surfactant solns. during 60 min at 60° and 80°. A soln. of Na lauryl sulfate [151-21-3] extd. more protein than a soln. of Hexadecyltrimethylammonium bromide [**57-09-0**] which extd. more than did solns. of **Polyethylene glycol** monolauryl ether [9002-92-0] and Lauric diethanolamide [120-40-1]. The amino acid **compns.** of the extd. proteins were similar to those of the original proteins.
CC 46-1 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 62
IT Wool
Zeins
RL: **USES (Uses)**
(protein extn. from, by surfactant solns.)
IT 57-09-0 120-40-1 151-21-3, uses and miscellaneous 9002-92-0
RL: **USES (Uses)**
(protein extn. from zein and wool by solns. of)

L36 ANSWER 47 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:412769 HCAPLUS
DOCUMENT NUMBER: 83:12769
TITLE: Dishwashing detergent
INVENTOR(S): Spadini, Gianfranco L.; Demessemaekers, Emiel
PATENT ASSIGNEE(S): Procter and Gamble European Technical Center, Belg.
SOURCE: Ger. Offen., 33 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2441944	A1	19750306	DE 1974-2441944	19740902

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NL 7411444	A	19750306	NL 1974-11444	197408 28 <--
US 3983079	A	19760928	US 1974-501531	197408 29 <--
BE 819490	A2	19750303	BE 1974-148169	197409 03 <--
FR 2242460	A1	19750328	FR 1974-29971	197409 03 <--
FR 2242460	B1	19790105		
GB 1447448	A	19760825	GB 1974-38421	197409 03 <--
JP 50072908	A2	19750616	JP 1974-101804	197409 04 <--
PRIORITY APPLN. INFO.:			LU 1973-68355 A	197309 04 <--

AB Dishwashing detergents contg. a polyethylene-**polypropylene glycol** (I) [9003-11-6], a quaternary ammonium surfactant, and a (trialkylammonio)alkanoate alkane sulfonate had good cleaning and rinsing properties and dried without leaving visible residues on dishes. Thus, a dishwashing detergent comprised didodecyldimethylammonium bromide [**3282-73-3**] 1.5, 3-(coconut alkyldimethylammonio)propionate 8.0, I (mol. wt. 2500, ethylene oxide content 10%) 10, coconut dimethylamine oxide 4, coconut diethanolamide 3, R(OC2H4)6OH (R = coconut alkyl) 9, and water 64.5%.

IC C11D

CC 46-6 (**Surface Active** Agents and Detergents)

IT Quaternary ammonium compounds, uses and miscellaneous
RL: **USES (Uses)**
(detergents, for dishwashing)

IT **Detergents**
(dishwashing, contg. quaternary ammonium compds. inner salts, and polyalkylene glycol)

IT 55448-04-9
RL: **USES (Uses)**
(dishwashing detergent contg.)

IT 3282-73-3 7173-51-5 9003-11-6 13197-76-7 14933-08-5 24020-67-5 32718-39-1 39536-51-1 51277-92-0 55481-38-4
RL: **USES (Uses)**
(dishwashing detergents contg.)

L36 ANSWER 48 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:158154 HCAPLUS
DOCUMENT NUMBER: 82:158154
TITLE: Combined washing and softening **composition**
INVENTOR(S): Grecsek, John J.
PATENT ASSIGNEE(S): Colgate-Palmolive Co.
SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2433079	A1	19750206	DE 1974-2433079	197407 10
FR 2236925	A1	19750207	FR 1974-24119	197407 11
FR 2236925	B1	19780331		
AU 7471138	A1	19760115	AU 1974-71138	197407 11
AU 496839	B2	19781102		
BE 817610	A1	19741104	BE 1974-146521	197407 12
DK 7403770	A	19750303	DK 1974-3770	197407 12
DK 150987	B	19871005		
DK 150987	C	19880215		

PRIORITY APPLN. INFO.: US 1973-378881 A 197307 13

AB Mixts. of anionic detergents 5-20, nonionic detergents 1-10, cationic quaternary ammonium compd. 2-10, and Na tripolyphosphate (I) 10-45% were used for simultaneous laundering and softening of textiles. Thus, a detergent comprised Na tridecylbenzenesulfonate [26248-24-8] 12, ethoxylated (11 moles) C14-15 **fatty alcs.** 4, dimethyldistearylammonium chloride [**107-64-2**] 5, I 33, Na silicate 7.5, CM-cellulose 0.5, Na sulfate 30, and water 8%.

IC C11D; D06L
CC 46-5 (**Surface Active** Agents and Detergents)
IT 25322-68-3D, Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, monoalkyl ethers
RL: **USES (Uses)**
(anionic detergents contg. cationic softeners and, for textiles)
IT 26248-24-8
RL: **USES (Uses)**
(detergents contg. cationic softeners and, for textiles)
IT 107-64-2
RL: **USES (Uses)**
(softeners, for textiles, anionic detergents contg.)

L36 ANSWER 49 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:537861 HCAPLUS
DOCUMENT NUMBER: 81:137861
TITLE: Detergents of low foam formation
INVENTOR(S): Hellsten, Karl M. E.; Martinsson, Eva M.; Sterky, Kristina
PATENT ASSIGNEE(S): MoDoKemi AB
SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

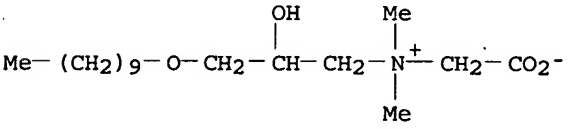
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2359155	A1	19740620	DE 1973-2359155	197311 28
			<--	
DE 2359155	B2	19760311		
DE 2359155	C3	19761028		
SE 375111	B	19750407	SE 1972-15648	197211 30
			<--	
JP 50001107	A2	19750108	JP 1973-124314	197311 05
			<--	
JP 51039964	B4	19761030		
FR 2327310	A1	19770506	FR 1973-41459	197311 21
			<--	
IT 1014035	A	19770420	IT 1973-70453	197311 23
			<--	
FI 55214	C	19790611	FI 1973-3635	197311 26
			<--	
FI 55214	B	19790228		
BE 807896	A1	19740315	BE 1973-138240	197311 28
			<--	
US 3954845	A	19760504	US 1973-419856	197311 28
			<--	
NL 7316356	A	19740604	NL 1973-16356	197311 29
			<--	
NL 156749	B	19780516		
CH 581692	A	19761115	CH 1973-16768	197311 29
			<--	
GB 1459806	A	19761231	GB 1973-55508	197311 29
			<--	
CA 1003723	A1	19770118	CA 1973-187021	197311 29
			<--	
DK 138339	C	19790122	DK 1973-6464	197311 29
			<--	
NO 141563	B	19791227	NO 1973-4569	197311 29

			<--	
NO 141563	C	19800408		
AT 7310062	A	19751015	AT 1973-10062	197311 30
			<--	
AT 330932	B	19760726		
PRIORITY APPLN. INFO.:			SE 1972-15648 A	197211 30
			<--	
			SE 1972-15647 A	197211 30
			<--	

AB Nonionic surfactants were used with ampholytic surfactants to prep. liq. detergents which had good cleaning properties and produced small amts. of foam when used in automatic washers. Thus, CH3(CH2)9OCH2CHOHCH2N+Me2CH2CO2- [51460-86-7] 2, CH3(CH2)15O(C2H4O)4CH2CHOHCH2N+Me2CH2CO2- [52849-38-4] 2, RO(C2H4O)8H (R = dodecyl and tetradecyl) 6, K pyrophosphate (or Na nitrilotriacetate) 12, propylene glycol 12, and water 66% were mixed to prep. a clear soln. stable from -4.deg. to +45.deg..

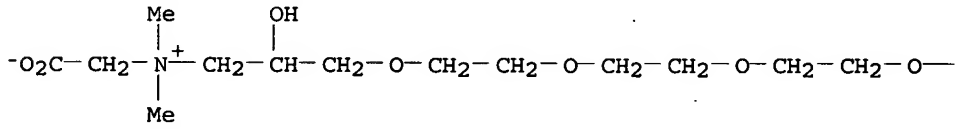
IT **51460-86-7 52849-38-4**
RL: **USES (Uses)**
(detergent liqs contg **polyethylene glycol** derivs and, low-foaming)

RN 51460-86-7 HCAPLUS
CN 1-Propanaminium, N-(carboxymethyl)-3-(decyloxy)-2-hydroxy-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)

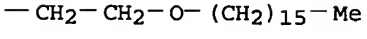


RN 52849-38-4 HCAPLUS
CN 4,7,10,13,16-Pentaoxadotriacontan-1-aminium, N-(carboxymethyl)-2-hydroxy-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IC C11D; C07C
CC 46-5 (**Surface Active** Agents and Detergents)
IT **Detergents**
(ampholytic-nonionic, liq, low-foaming)
IT **51460-86-7 52849-38-4** 52871-07-5
RL: **USES (Uses)**

(detergent liqs contg **polyethylene glycol** derivs and, low-foaming)
IT 9016-45-9 25322-68-3
RL: **USES (Uses)**
(monoalkyl ether detergent liqs. contg. ampholytes and, low-foaming)

L36 ANSWER 50 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:527578 HCAPLUS
DOCUMENT NUMBER: 79:127578
TITLE: Dry-cleaning solvents for garments
INVENTOR(S): Tsuji, Takao; Katsumi, Mamoru; Wakamiya, Katsuhiko
PATENT ASSIGNEE(S): Kao Soap Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48047903	A2	19730707	JP 1971-83436	197110 21
JP 51044126	B4	19761126		

PRIORITY APPLN. INFO.: JP 1971-83436 A 197110 21

AB Transparent dry-cleaning solns. with improved cleaning properties were prepd. from an org. solvent contg. 0.01-4% of an cationic or nonionic surfactant or their mixt. and 0.005-10% water and the vapor phase of soln. at equil. had 100% relative humidity. A **compn.** consisting of dilauryldimethylammonium chloride (I) [**3401-74-9**] 30, poly(oxyethylene) nonylphenyl ether (II) [**9016-45-9**] 12, H2O 30, and perchloroethylene (III) [127-18-4] 28% was mixed with III to give a W/O-type emulsion contg. 0.03-1.4% I + II, whose equil. vapor had 100% relative humidity. When 3.5 kg soiled acrylic fiber and cotton fiber garments were dry-cleaned 15 min at room temp. by using 90 l. of the emulsion, the garments were cleaned without shrink.
INCL 19F2; 92(5)B0; 92(5)B426
CC 46-5 (**Surface Active** Agents and Detergents)
IT Acrylic fibers
RL: **USES (Uses)**
(dry-cleaning solns. for)
IT 127-18-4
RL: **USES (Uses)**
(dry-cleaning solns. contg.)
IT 3401-74-9 9016-45-9
RL: TEM (Technical or engineered material use); **USES (Uses)**
(surfactants, for dry-cleaning solns.)

L36 ANSWER 51 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:527574 HCAPLUS
DOCUMENT NUMBER: 79:127574
TITLE: Detergent **compositions** containing N-acylglutamate salts and betaines
INVENTOR(S): Naganuma, Yoshinoro; Iwata, Kazuko
PATENT ASSIGNEE(S): Kao Soap Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48056205	A2	19730807	JP 1971-92865 <--	197111 19
JP 50023682	B4	19750809		

PRIORITY APPLN. INFO.: JP 1971-92865 A 197111 19 <--

AB The detergent **compn.** contains a Na, K, NH4, or alkanolamine salt of N-acylglutamic acid (C8-22 acyl) and an C10-18 alkyl or alkenyl betaine with 2 C1-3 N-substituents or a **polyethylene glycol** (d.p. 1-10) and H, CH2CO2M (M is Na, K, NH4 or alkanolamine), or a **polyethylene glycol** (total d.p. 1-10) N-substituents. The **compn**. is mild on skins and has good cleaning power. Thus, a **compn.** of Na N-lauroyl-L-glutamate (I) [29923-31-7] 15, (carboxymethyl)(dimethyl)dodecylammonium hydroxide inner salt (II) [**683-10-3**]10, EtOH 10, urea 5, perfume 0.1, and water balance to 100% had much superior dish cleaning power than that of similar **compn.** contg. 25 parts I and no II.

INCL 19F2
CC 46-3 (**Surface Active** Agents and Detergents)
IT Betaines
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., for dishwashing)
IT 42926-22-7
RL: **USES (Uses)**
(detergents contg. betaines and, for dishwashing)
IT 42926-23-8
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., for dishwashing)

L36 ANSWER 52 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:86337 HCAPLUS
DOCUMENT NUMBER: 78:86337
TITLE: Agents for cleaning highly contaminated chicken feathers
INVENTOR(S): Mahall, Karl
PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.
SOURCE: Ger., 3 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1535969	B1	19730104	DE 1966-H59690 <--	196606 16
DE 1535969	C2	19730802		
US 3475112	A	19691028	US 1967-632904	196704 24

NL 6706971	A	19671218	NL 1967-6971 <--	196705 19
CH 486279	A	19700228	CH 1967-486279 <--	196706 12
BE 699892	A	19671214	BE 1967-699892 <--	196706 14

PRIORITY APPLN. INFO.: DE 1966-H59690 A <-- 196606 16

AB Post-spraying the title feathers with solns. contg. 0.2-2 g/l. pyridine [110-86-1] and 0.05-0.5 g/l. dioctadecyldimethylammonium chloride (I) [**107-64-2**] or cetylpyridinium chloride [123-03-5] improved the cleanliness of the feathers washed by detergent **compns.** Thus, oily, strong smelling, sticky feathers were washed 15 min at 40.deg. in a bath contg. an ethylene oxide-**nonylphenol** adduct, oxyethylated **fatty alc.**, Na hexametaphosphate, Na2SO4, and picoline-contg. C5H5N, sprayed 5-10 min with 35.deg. water, 20 min with cold water, 3 min with a 20% aq. soln. contg. 0.2 kg I and a small amt. of Methyl Violet, and 2 min with this same soln. contg. addnl. 1.0 kg picoline-contg. C5H5N. The feathers were then steamed to give a separable, odor-free product.

IC D06L

CC 46-6 (**Surface Active** Agents and Detergents)

IT 107-64-2 110-86-1, uses and miscellaneous 123-03-5
RL: TEM (Technical or engineered material use); **USES (Uses)**
(detergents contg., for washing feathers)

L36 ANSWER 53 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:18068 HCAPLUS
DOCUMENT NUMBER: 78:18068
TITLE: Textile softening **compositions**
INVENTOR(S): Eckert, Hans Werner; Werner, Claus
PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2114129	A	19720928	DE 1971-2114129	197103 24
NL 7105926	A	19720926	NL 1971-5926 <--	197104 29
BR 7103179	A0	19730410	BR 1971-3179 <--	197105 25
US 3795610	A	19740305	US 1971-213721 <--	197112

29
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IT 950442 A 19730620 IT 1972-22190
197203
22
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BE 781124 A1 19720925 BE 1972-115463
197203
23
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ZA 7201991 A 19721227 ZA 1972-1991
197203
23
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AT 320830 B 19750225 AT 1972-2527
197203
23
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FR 2130652 A5 19721103 FR 1972-10368
197203
24
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FR 2130652 B1 19741018
PRIORITY APPLN. INFO.: DE 1971-2114129 A
197103
24
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AB The powd. title **compns.**, which were well dispersible in cold water, did not neg. influence the absorptivity of textiles, and were used in the last rinsing cycle in automatic laundering, consisted of the softeners 2-hydroxy-3-(dihexadecylmethylammonio)propyl acrylate chloride (I) [**34373-64-3**], 2-hydroxy-3-(ditetradecylmethylammonio)propyl methacrylate chloride [**36111-12-3**], or bis[2-hydroxy-3-(didodecylmethylammonio)propyl] maleate dichloride [**36111-13-4**], the carrier urea, complexing glycolic acid (II), and nonionic dispersants. Thus, a **compn.** consisted of I 20, II 2.0, ethoxylated (9-10 moles ethylene oxide) **nonylphenol** 3.0, Na2SO4 15.0, and urea 60.0%.

IC C11D; C07C

CC 46-4 (**Surface Active** Agents and Detergents)
Section cross-reference(s): 39

ST textile softening **compn**; ammoniopropyl acrylate textile softener; methacrylate ammoniopropyl textile softener; maleate ammoniopropyl textile softener

IT Textiles
(softening of, (dialkylmethylammonio)hydroxypropyl unsatd. carboxylate chloride-contg. **compns.** for, powd.)

IT 34373-64-3 36111-12-3 36111-13-4
RL: **USES (Uses)**
(textile softening **compns.**, powd.)

L36 ANSWER 54 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:101560 HCAPLUS
DOCUMENT NUMBER: 76:101560
TITLE: Liquid laundry-softening detergents
INVENTOR(S): Bruening, Juergen; Eckert, Hans W.; Heins, Arnold
PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.
SOURCE: Ger. Offen., 30 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2025945	A	19711216	DE 1970-2025945	197005 27
			<--	
NL 7105920	A	19711130	NL 1971-5920	197104 29
			<--	
BE 767547	A1	19711124	BE 1971-103763	197105 24
			<--	
US 3729416	A	19730424	US 1971-146515	197105 24
			<--	
ES 391583	A1	19741116	ES 1971-391583	197105 26
			<--	
AT 7104546	A	19751215	AT 1971-4546	197105 26
			<--	
AT 331761	B	19760825		
ZA 7103427	A	19720126	ZA 1971-3427	197105 27
			<--	
FR 2100691	A5	19720324	FR 1971-19251	197105 27
			<--	
FR 2100691	B1	19730608		
PRIORITY APPLN. INFO.:			DE 1970-2025945 A	197005 27
			<--	

AB Liq. laundry-softening detergents were composed of aq. solns. of nonionic dispersants 0.2-3.0, water-sol. org. solvents 0.2-10.0, laundry-softeners 0.3-7.5, and ammonium-substituted unsatd. carboxylic acid ester halides 2.0-10.0%. For example, dihexadecylmethylamine 480, acrylic acid 90, epichlorohydrin 116, and 2,6-di-tert-butyl-4-methylphenol 0.5 g were heated in 1 l. iso-PrOH at 60-5.deg. to give [3-(acryloyloxy)-2-hydroxypropyl]dihexadecylmethylammonium chloride (I) [**34373-64-3**]. I (7%) was mixed with ethylene oxide-**nonylphenol** adduct 2, 4,4'-bis[4-anilino-6-(dihydroxyethylamino)-1,3,5-s-triazin-2-yl]-2,2'-stilbenedisulfonic acid [4404-43-7] 0.05, glycolic acid 1.0, iso-PrOH 1.25, and H2O 88.7% to give a laundry-softening detergent which was useful in aq. laundry solns.

IC C11D; C07C

CC 46 (**Surface Active** Agents and Detergents)

IT Softening agents
(quaternary ammonium compds., liq. detergent **compns.** contg., for textiles)

IT Textiles
(softening agents for, quaternary ammonium compds. as, liq. detergent **compns.** contg.)

IT 34373-64-3 36111-12-3 36111-13-4 36111-14-5 36111-15-6 36283-30-4
RL: **USES (Uses)**

(softening agents, for liq. detergent **compns.** for textiles)

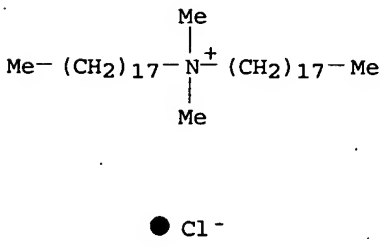
L36 ANSWER 55 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1968:97023 HCAPLUS
DOCUMENT NUMBER: 68:97023
TITLE: Cationic fabric softener containing a detergent
PATENT ASSIGNEE(S): Unilever N. V.
SOURCE: Neth. Appl., 13 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6707151		19661124	NL <--	
PRIORITY APPLN. INFO.:			US	196605 23 <--

AB An anionic detergent contains a cationic N compd. serving as a fabric softener to avoid the need for separate addn. of fabric softener during the rinsing stage in household washing machines. For example, a detergent is prepd. by mixing a linear Na alkylbenzenesulfonate (contg. C12-16 alkyl groups) (Alkylate 1060) 13, Na CM-cellulose 0.49, Na triphosphate 54.2, coconut fatty acid ethanolamide 2.71, Na2SO4 8.02, MeC6H4SO3Na 1.08, Na2SiO3 4.33, optical brightener 0.43, polybromosalicylanilide germicide 0.54, and H2O 15.14% by wt. A fabric softener was prepd. by melting 77.5% distearyldimethylammonium chloride with 9.7% of a condensate of a C16-20 alkanol and ethylene oxide (contg. 67.2% ethylene oxide) (Alfonic 1620-7) and mixing with 12.9 wt. % talc. The 2 **compns.** were dry mixed in a 92.25:7.75 wt. ratio.

IT **107-64-2**
RL: **USES (Uses)**
(softeners from **polyethylene glycol** monoalkyl ether and, for fabrics, detergents contg.)

RN 107-64-2 HCAPLUS
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



IC D06H
CC 46 (**Surface Active** Agents and Detergents)
IT **107-64-2**
RL: **USES (Uses)**
(softeners from **polyethylene glycol** monoalkyl ether and, for fabrics, detergents contg.)
IT 25322-68-3D, Glycols, polyethylene, monoalkyl ethers
RL: **USES (Uses)**
(softening agents from dimethyldioctadecylammonium chloride and,

for fabrics, detergents contg.)

L36 ANSWER 56 OF 56 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:67043 HCAPLUS
DOCUMENT NUMBER: 66:67043
TITLE: Micelle formation in mixtures of nonionic and cationic detergent
AUTHOR(S): Schick, Martin J.
CORPORATE SOURCE: Lever Brothers Co., Edgewater, NJ, USA
SOURCE: Journal of the American Oil Chemists' Society (**1966**), 43(12), 681-2
CODEN: JAOCA7; ISSN: 0003-021X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The effect of a homologous series of poly(oxyethylene)-n-dodecanol condensates on the crit. micelle concn. (cmc) of mixts. with n-dodecyltrimethylammonium bromide (I) and the effect of poly(oxyethylene)-n-hexadecanol condensates on the cmc of mixts. with n-hexadecyltrimethylammonium bromide (II) was studied in terms of the **compn.** of the mixts. The cmc of the nonionic component of the mixed micelles is approx. 0.01 of that of the cationic component. Only a gradual increase in the cmc values of the mixed micelles above the values of the nonionic components was observed in the **compn.** range of 0-75 moles % or 0-90 moles % of I and II, resp. This is followed by an abrupt transition to the high cmc values of the cationic component. This abrupt transition is considerably reduced by addn. of Na-Br. In the absence of added electrolyte, the degree of ionic repulsion of the cationic component in mixed micelles is markedly decreased as the proportion of the nonionic component (dodecanols and hexadecanols) reaches a threshold range of 25 or 10 mole %, resp. Swamping of charges reduces ionic repulsion in NaBr solns. and, consequently, the abrupt transition in the cmc vs. **compn.** curves is reduced.

IT **1119-94-4**
RL: **USES (Uses)**
(crit. micelle concn. of, **polyethylene glycol** dodecyl ether effect on)
RN 1119-94-4 HCAPLUS
CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$Me_3{}^+N-(CH_2)_{11}-Me$

● Br^-

IT **57-09-0**
RL: **USES (Uses)**
(crit. micelle concn. of, **polyethylene glycol** hexadecyl ether effect on)
RN 57-09-0 HCAPLUS
CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$Me_3{}^+N-(CH_2)_{15}-Me$

● Br^-

CC 46 (**Surface Active** Agents and Detergents)
IT 9002-92-0
RL: **USES (Uses)**
(crit. micelle concn. of dodecyltrimethylammonium bromide in presence of)
IT 27306-79-2
RL: **USES (Uses)**
(crit. micelle concn. of hexadecyltrimethyl ammonium bromide in presence of)
IT 27306-79-2
RL: **USES (Uses)**
(crit. micelle concn. of hexadecyltrimethylammonium bromide in presence of)
IT **1119-94-4**
RL: **USES (Uses)**
(crit. micelle concn. of, **polyethylene glycol** dodecyl ether effect on)
IT **57-09-0**
RL: **USES (Uses)**
(crit. micelle concn. of, **polyethylene glycol** hexadecyl ether effect on)

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